

Figure 1

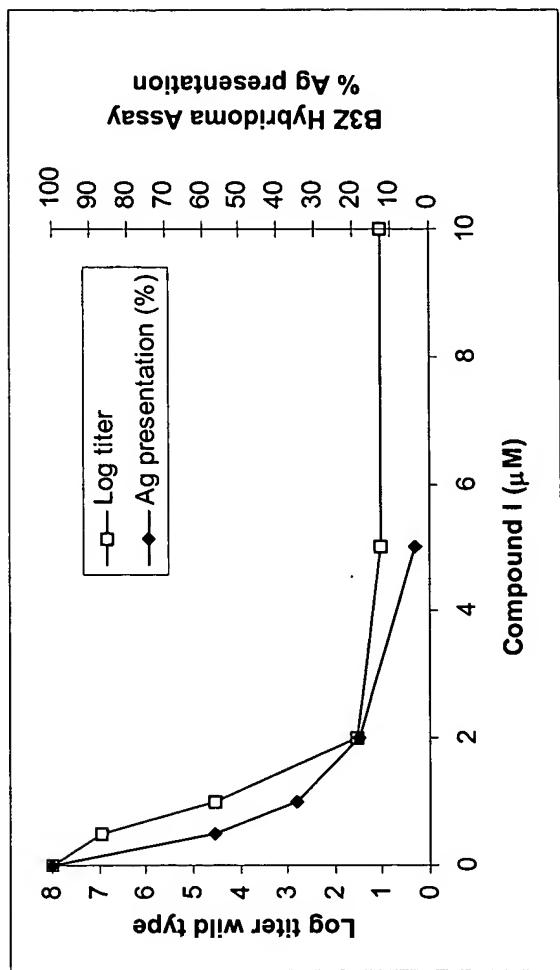


Figure 2A

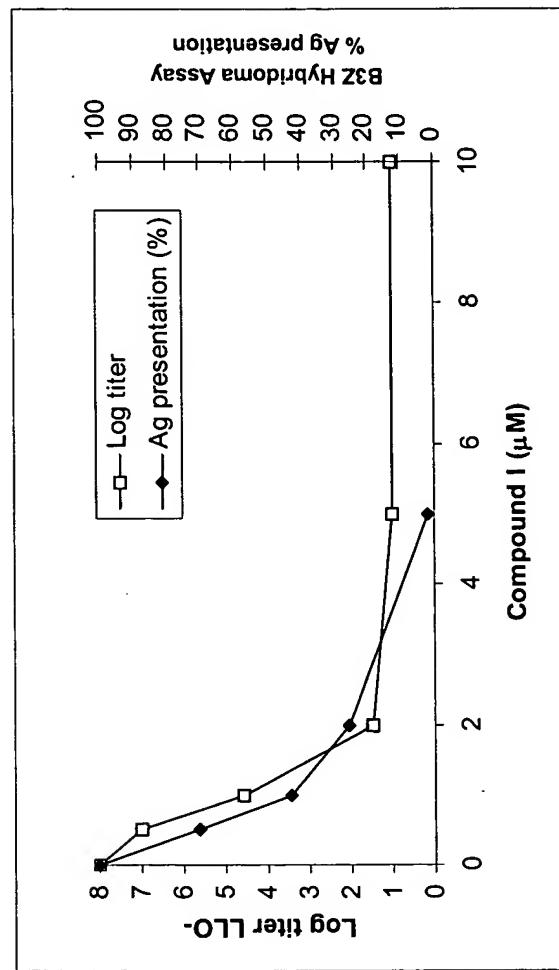


Figure 2B

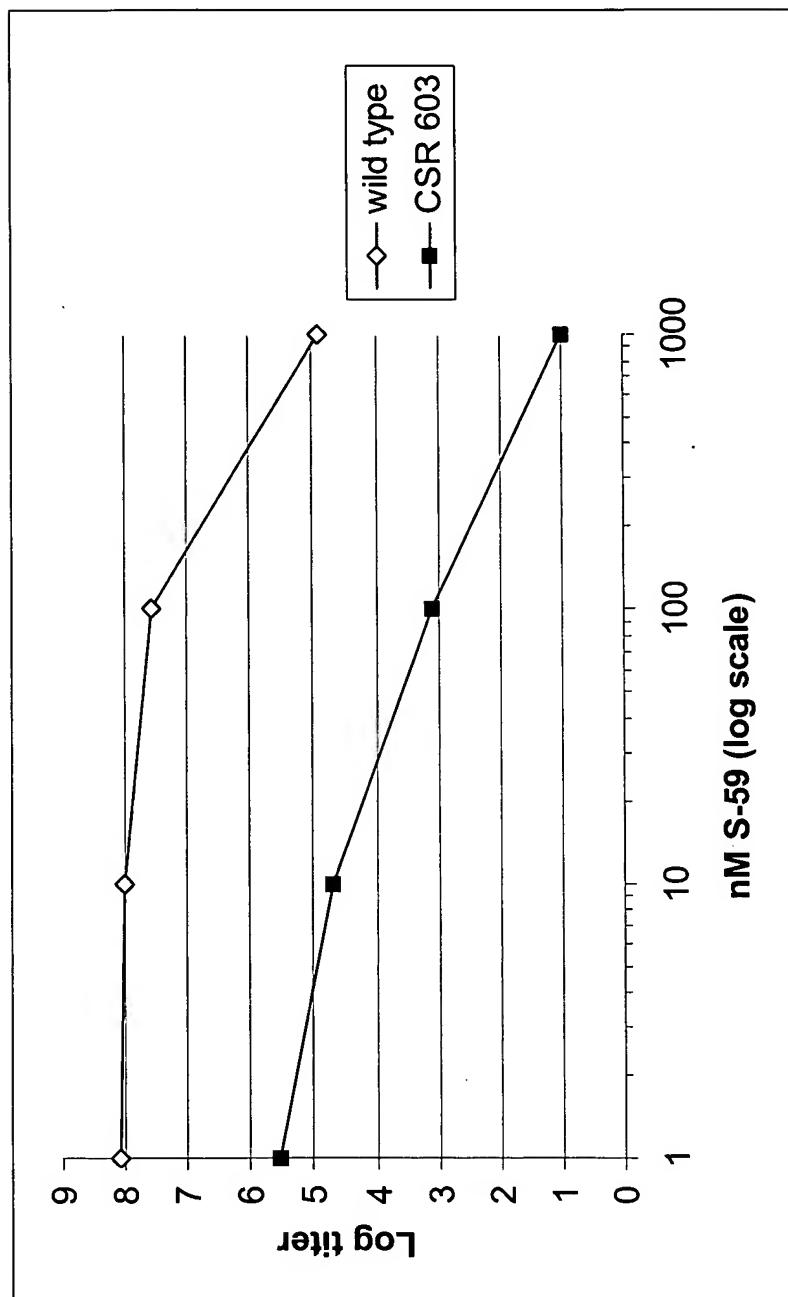


Figure 3

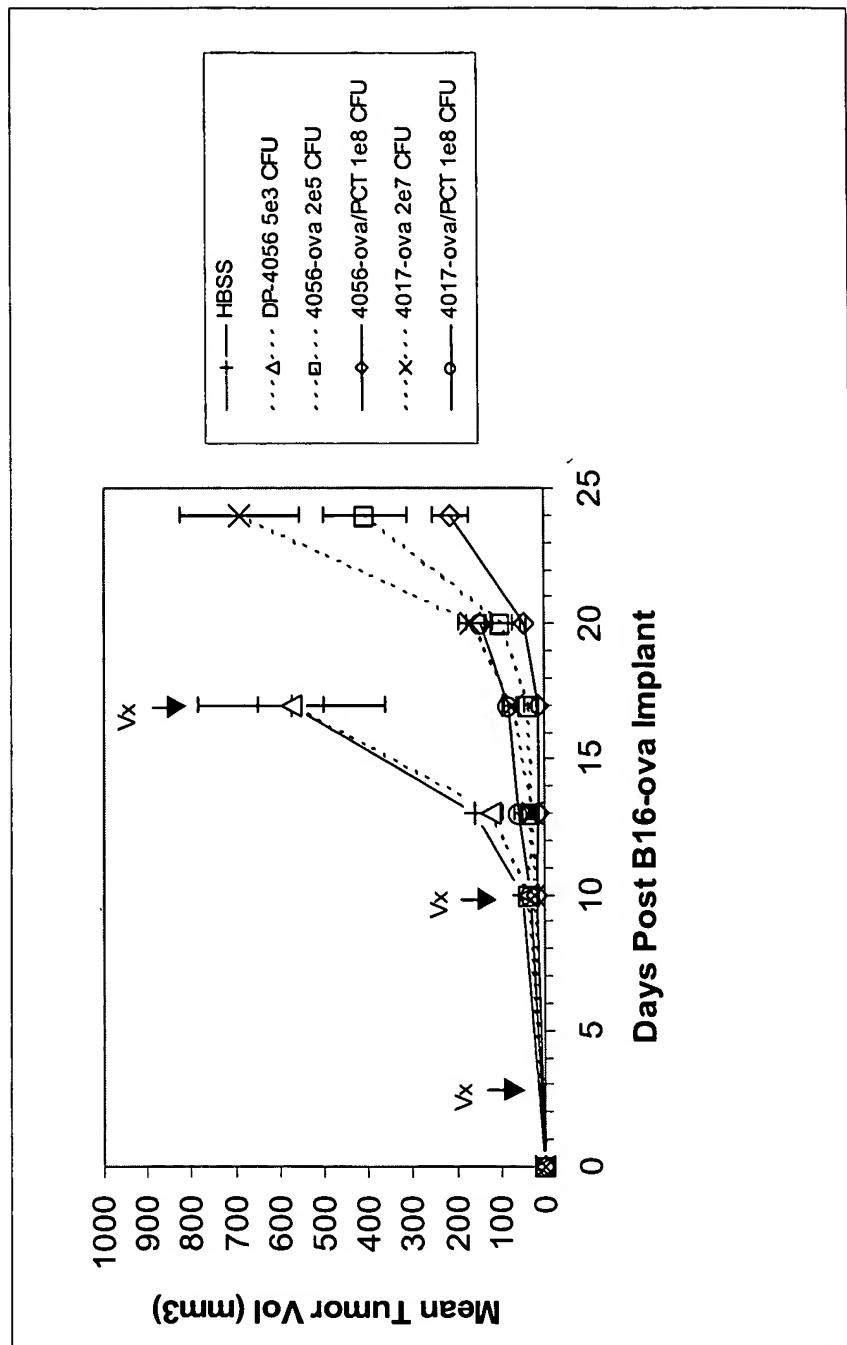


Figure 4

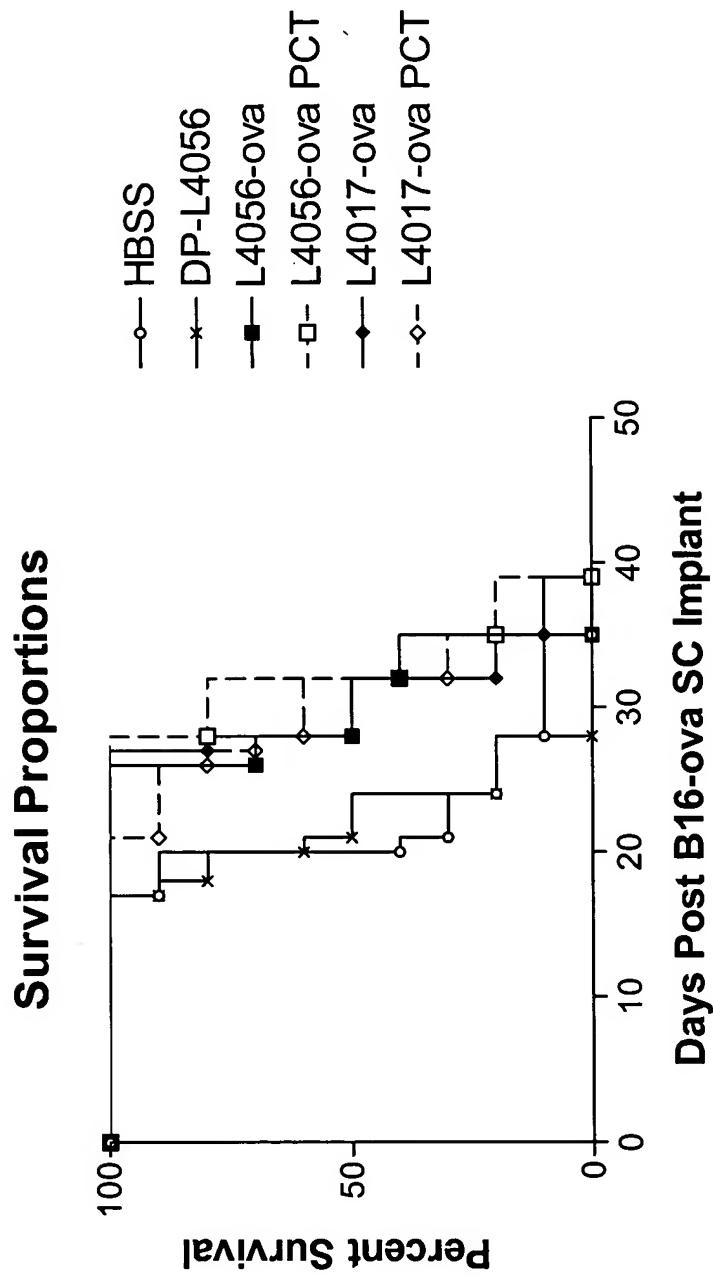
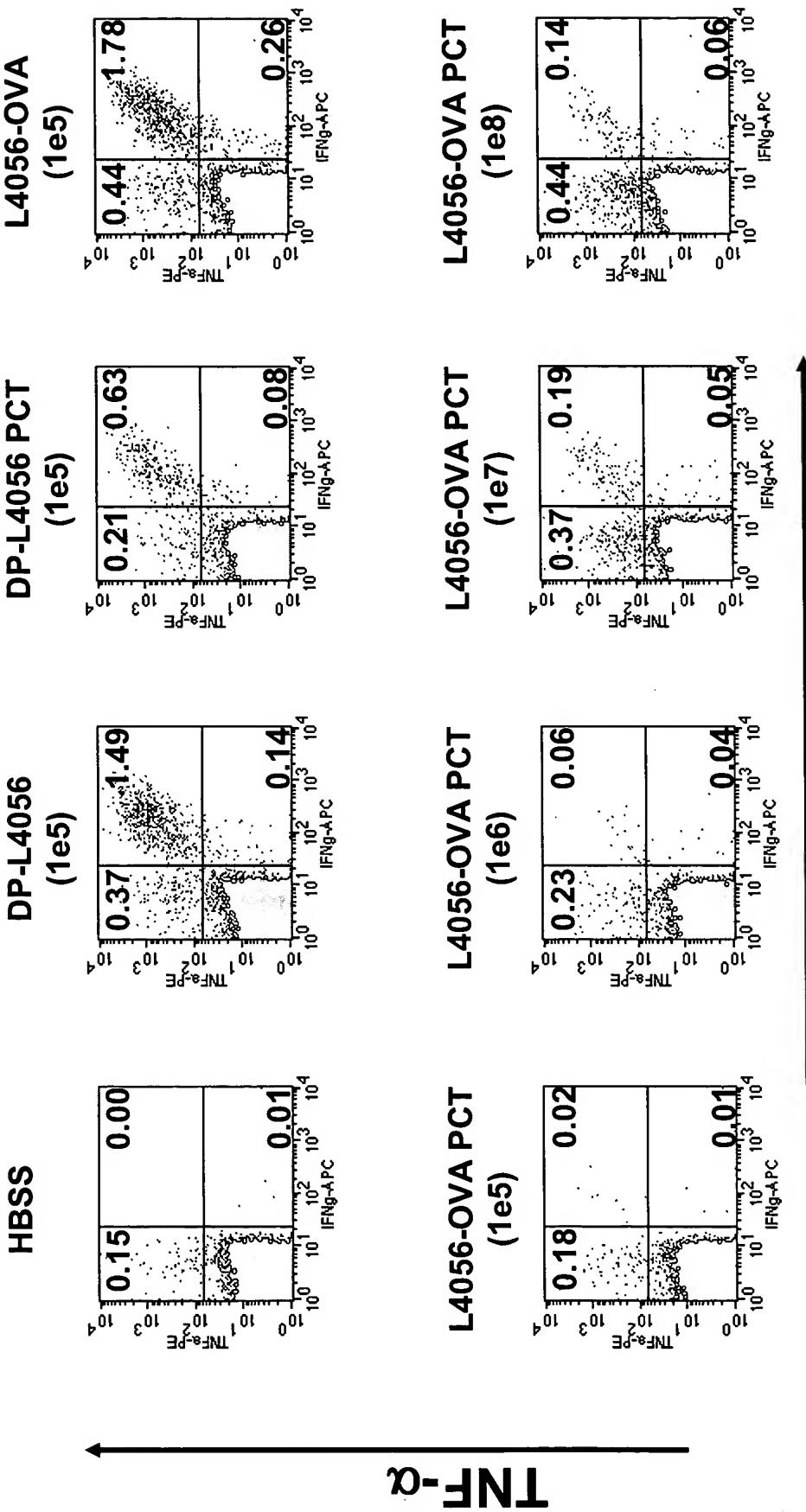


Figure 5

LL_O₁₉₀₋₂₀₁-specific CD4⁺ T cell response



IFN- γ

Figure 6A

OVA-specific CD8⁺ T cell response

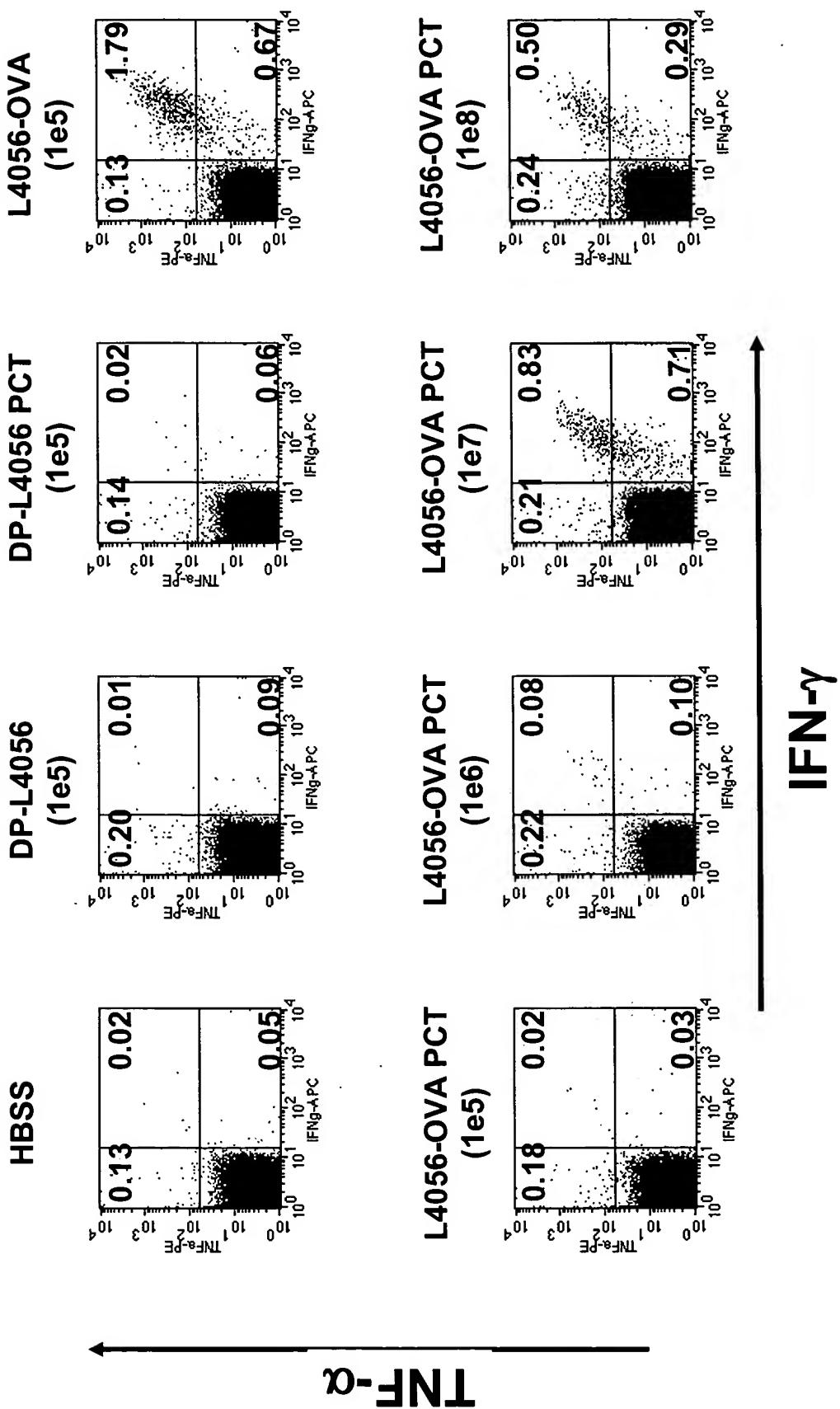


Figure 6B

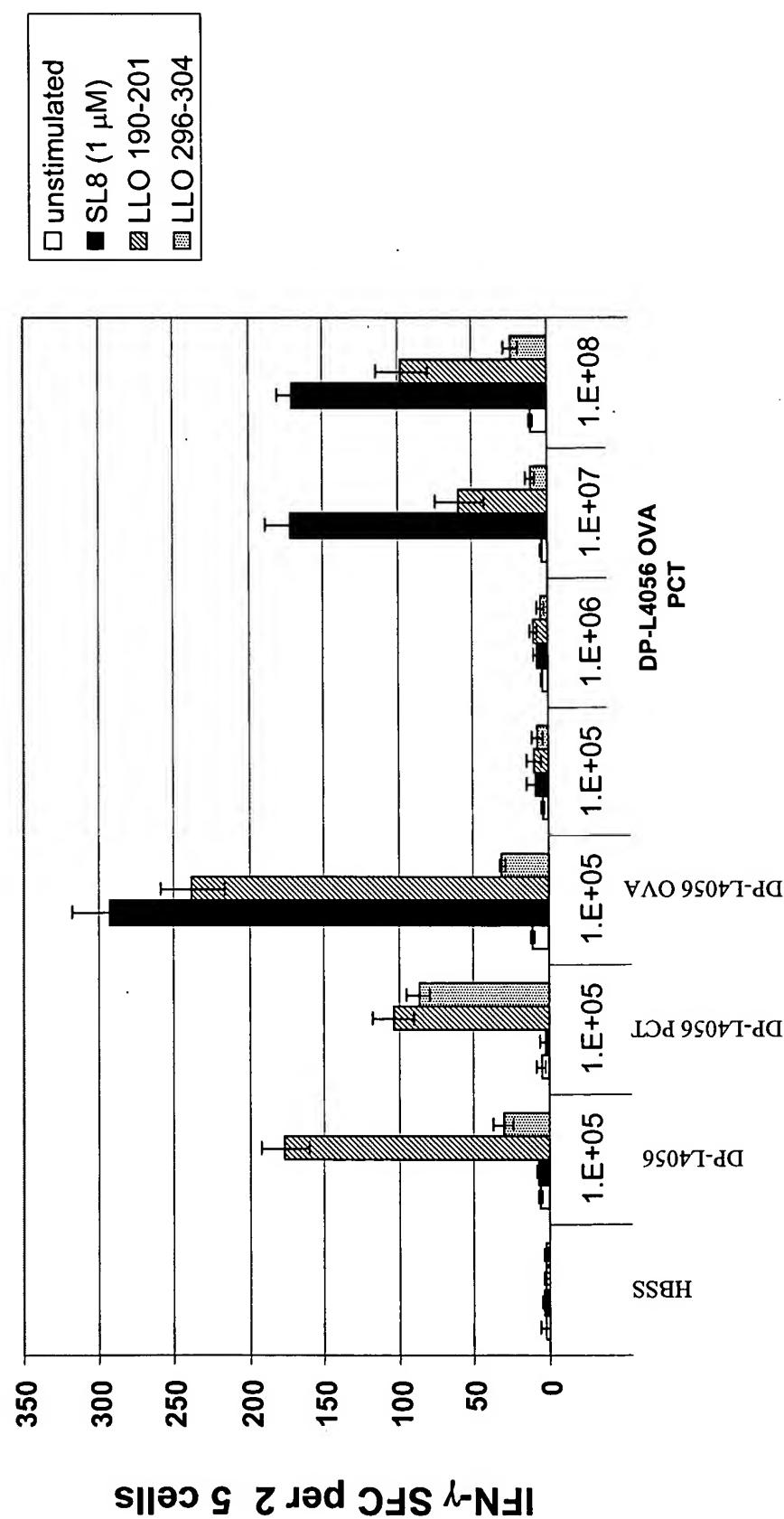


Figure 7

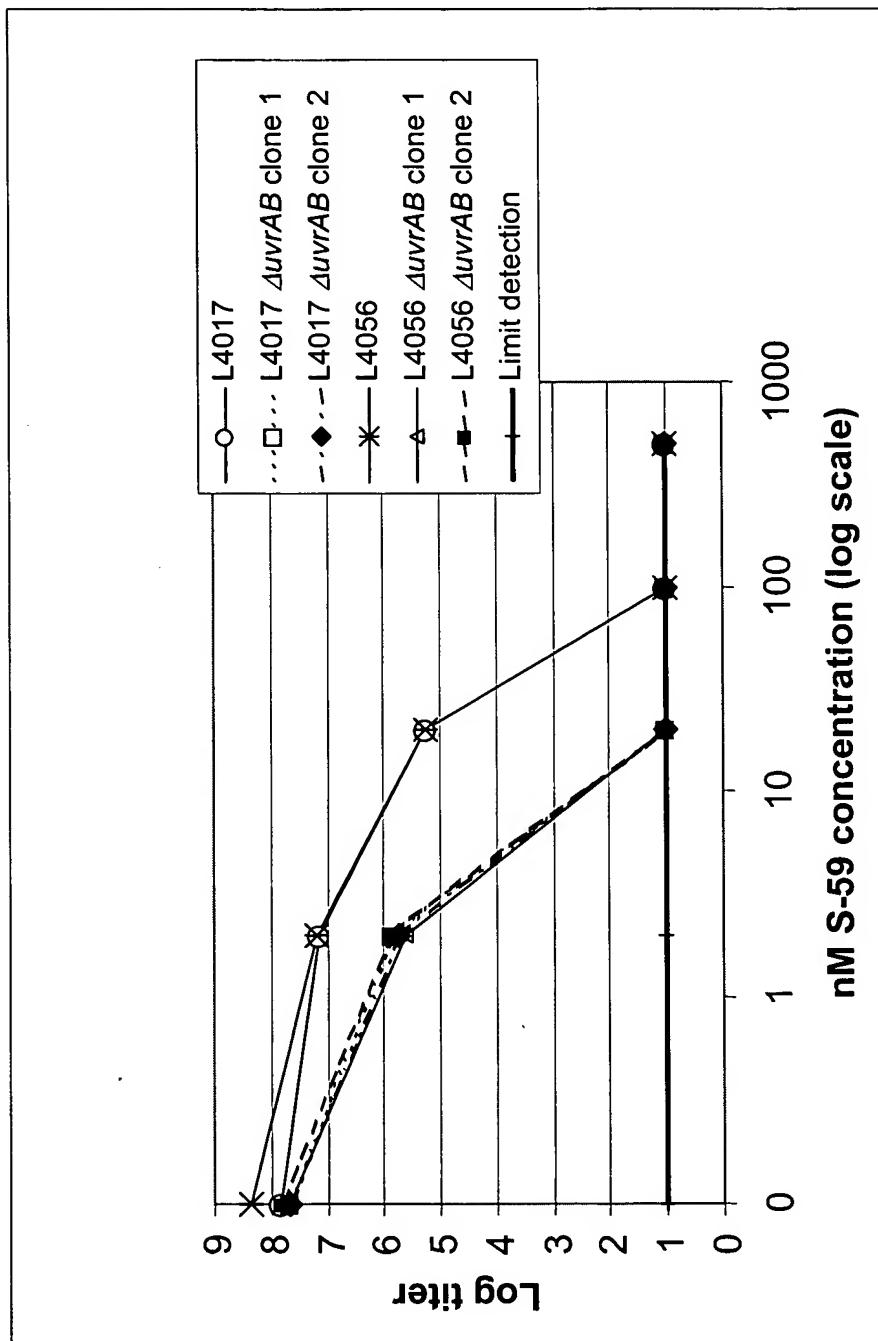


Figure 8A

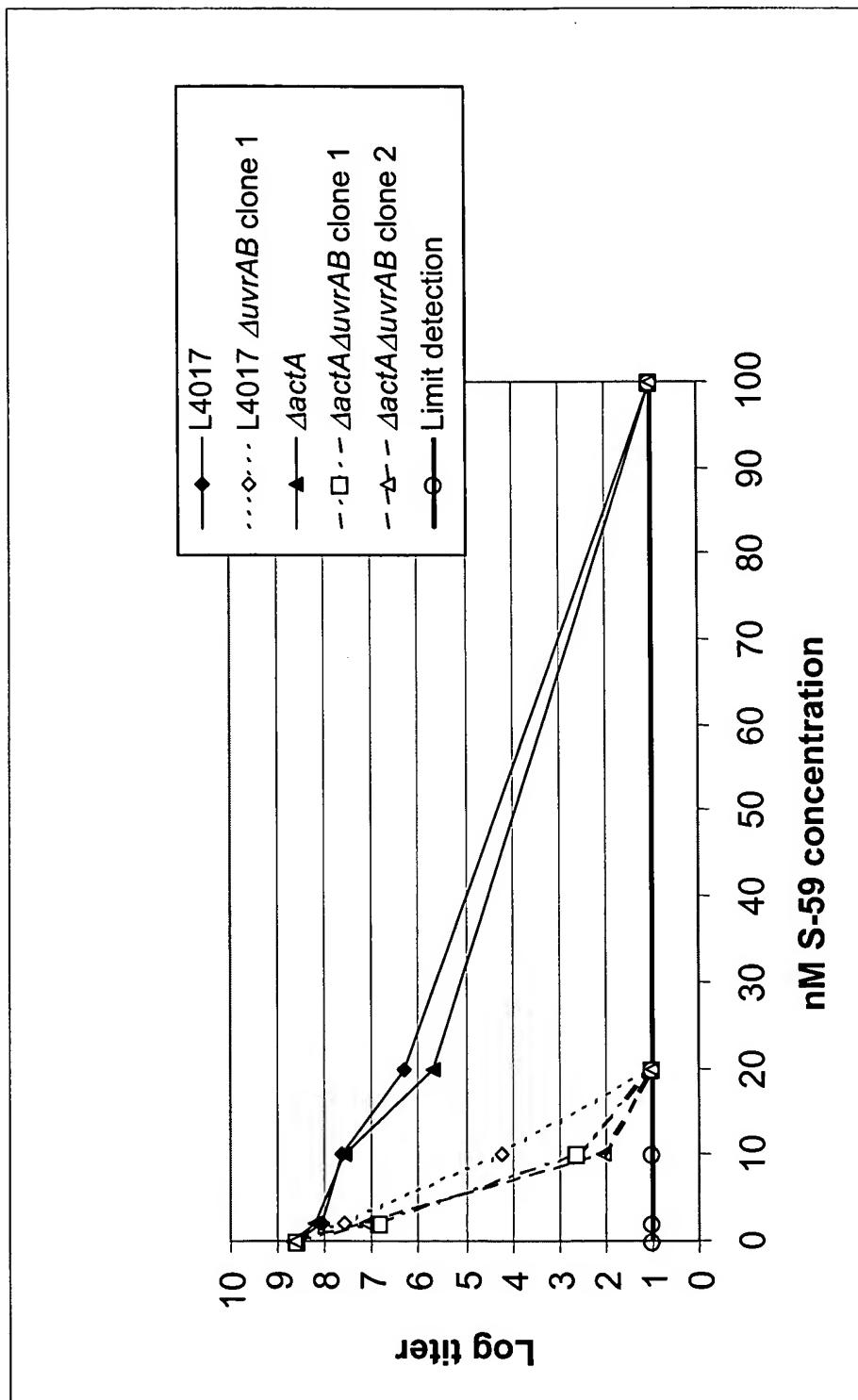


Figure 8B

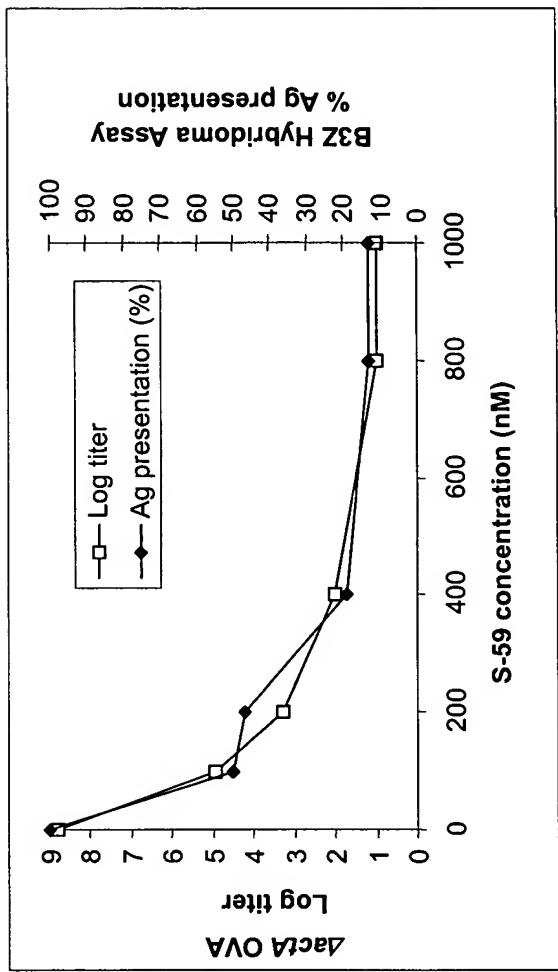


Figure 9A

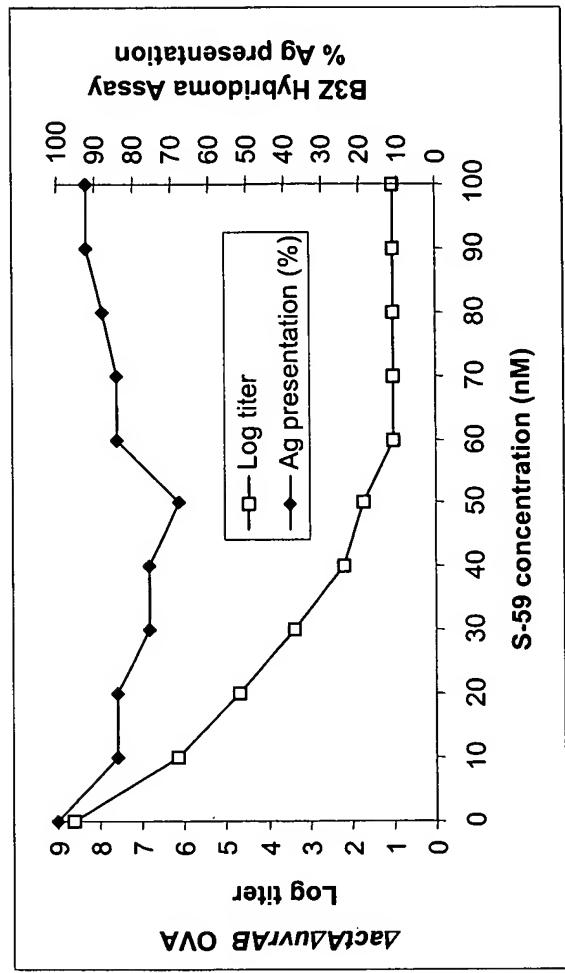
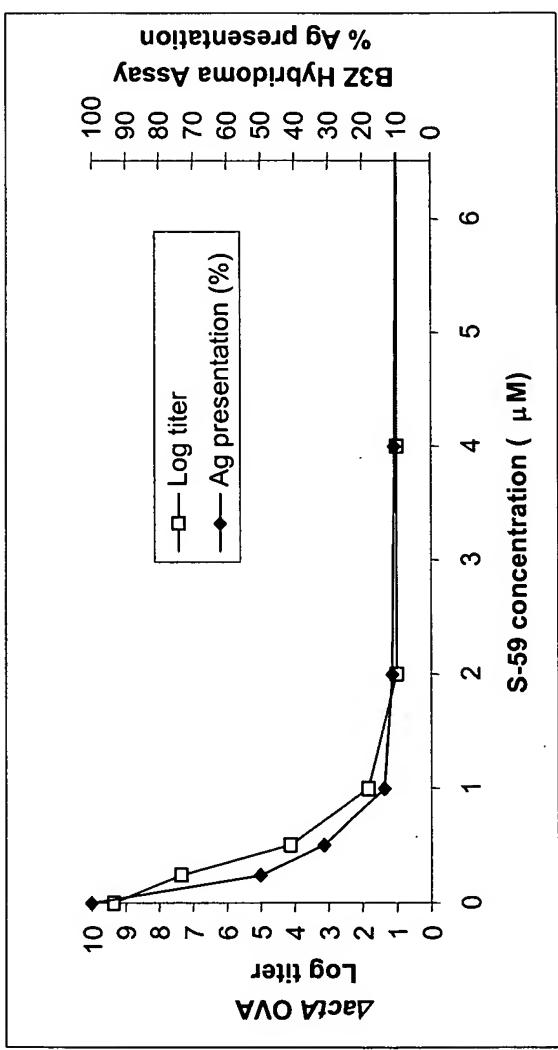
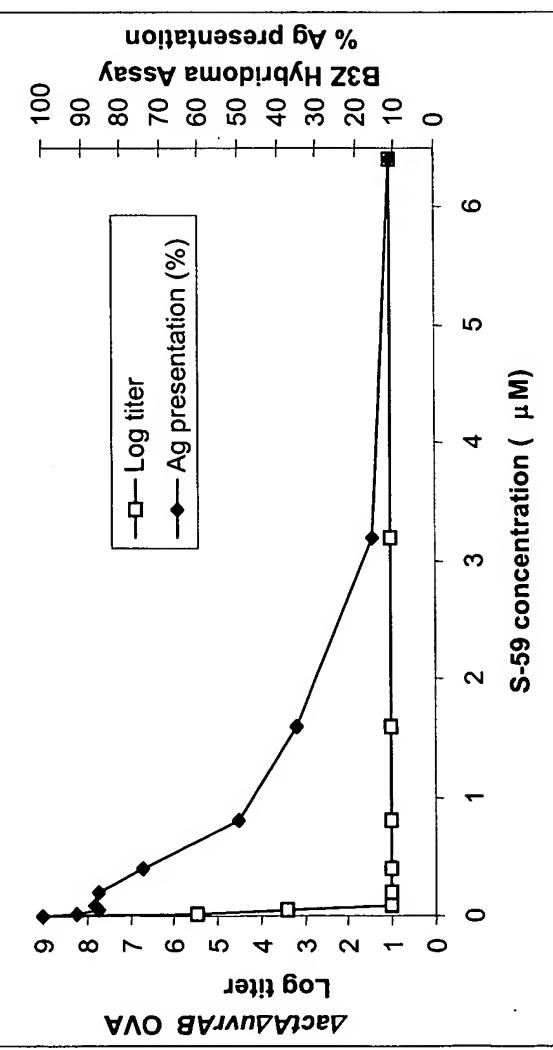
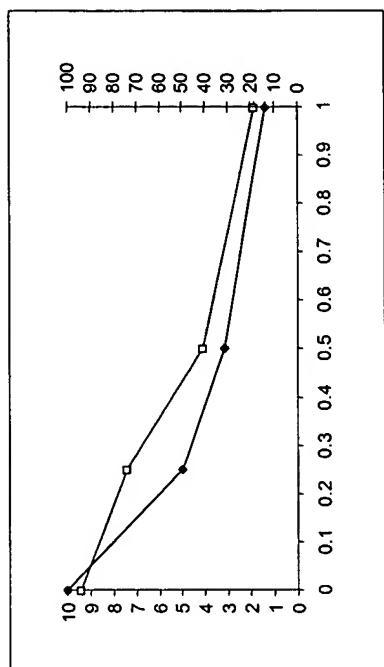


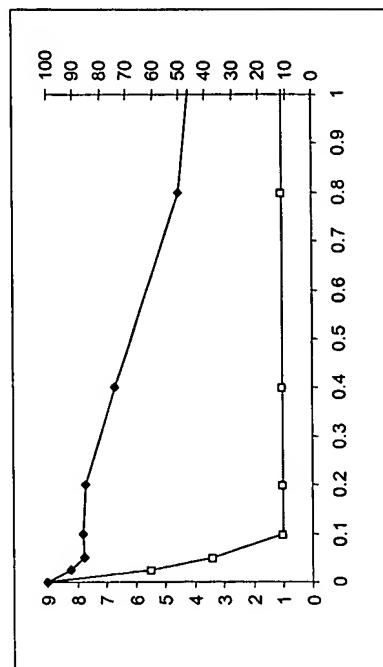
Figure 9B



Expanded plot



Expanded plot



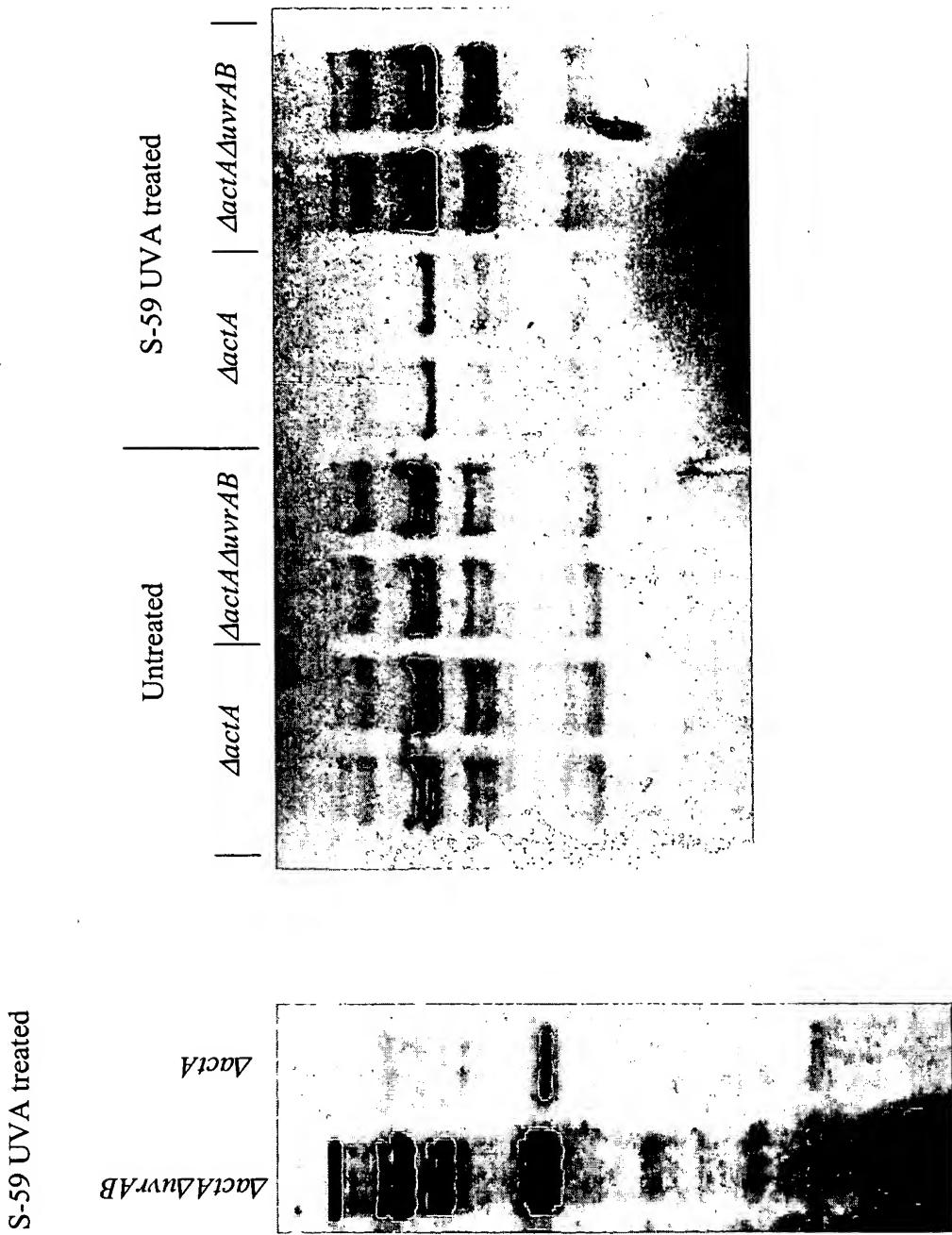


Figure 10

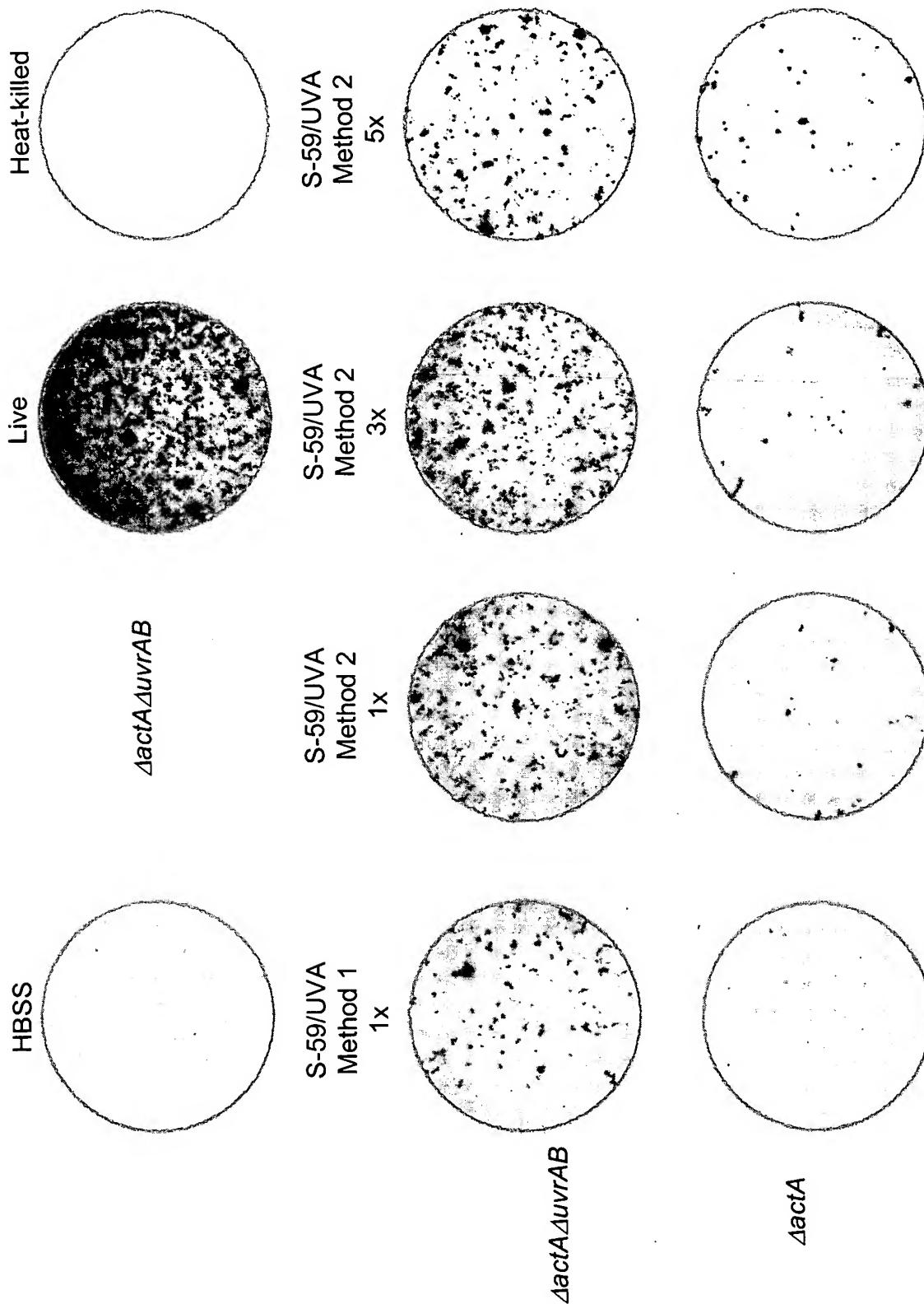


Figure 11A

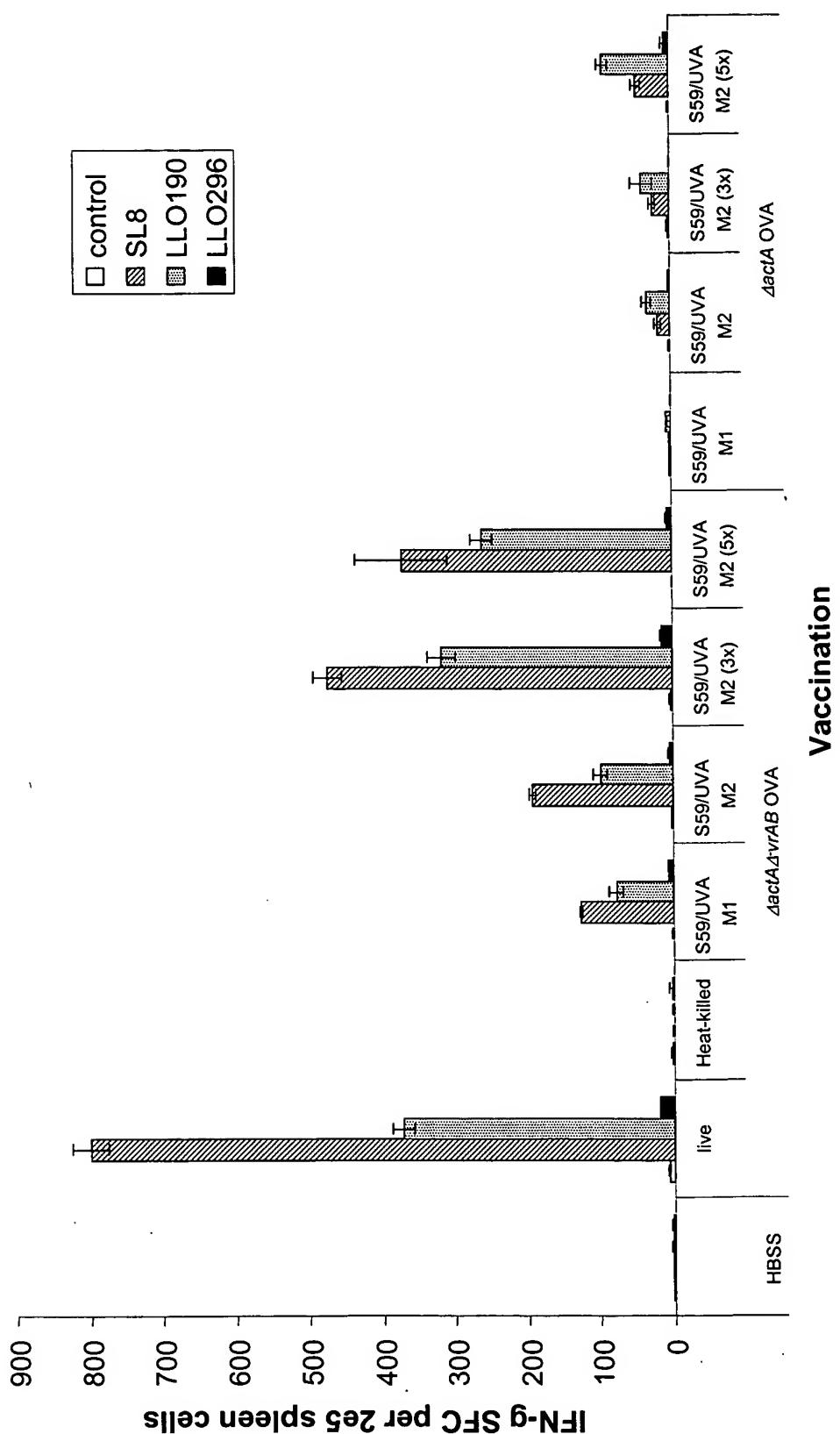


Figure 11B

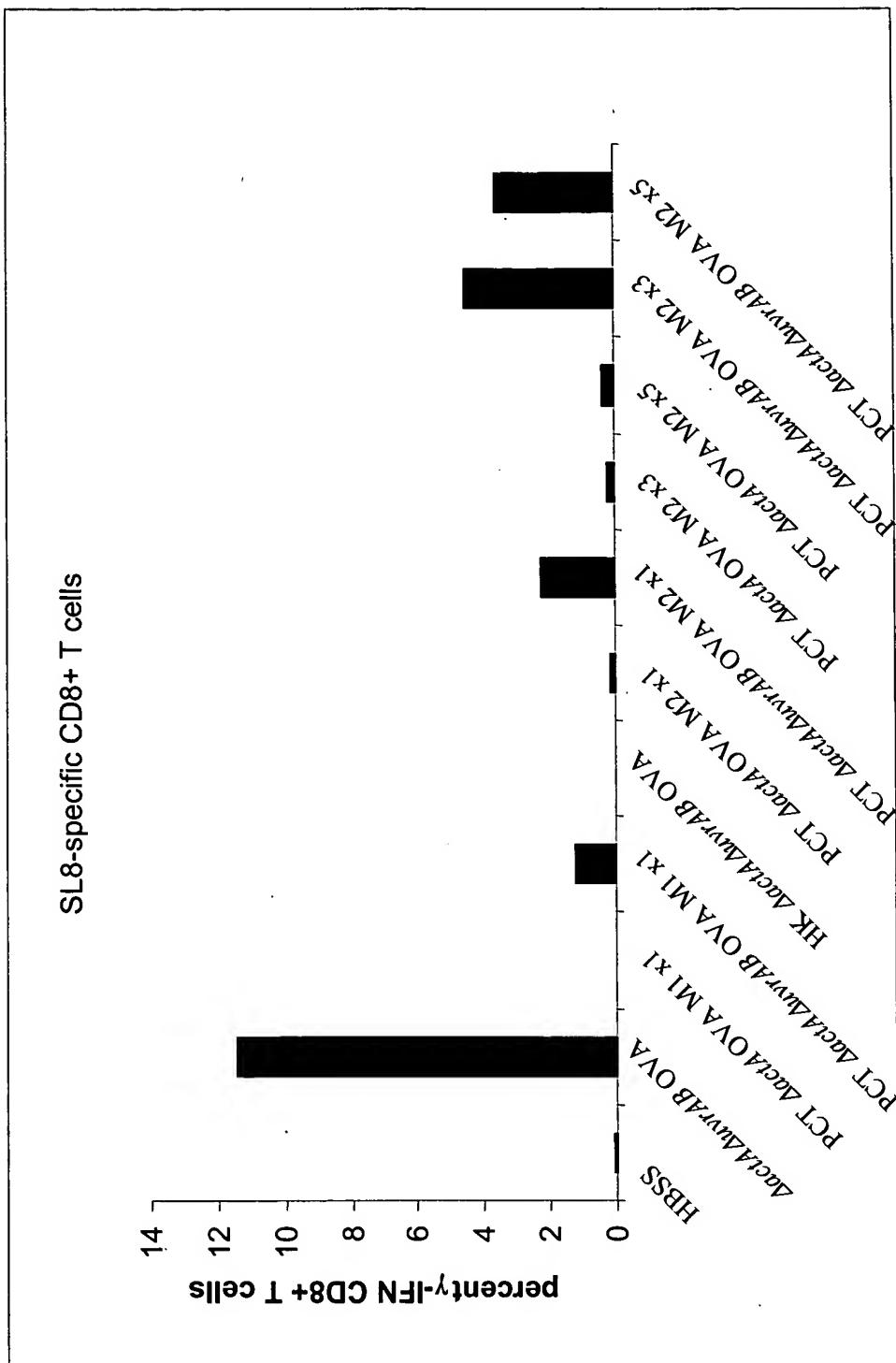


Figure 12A

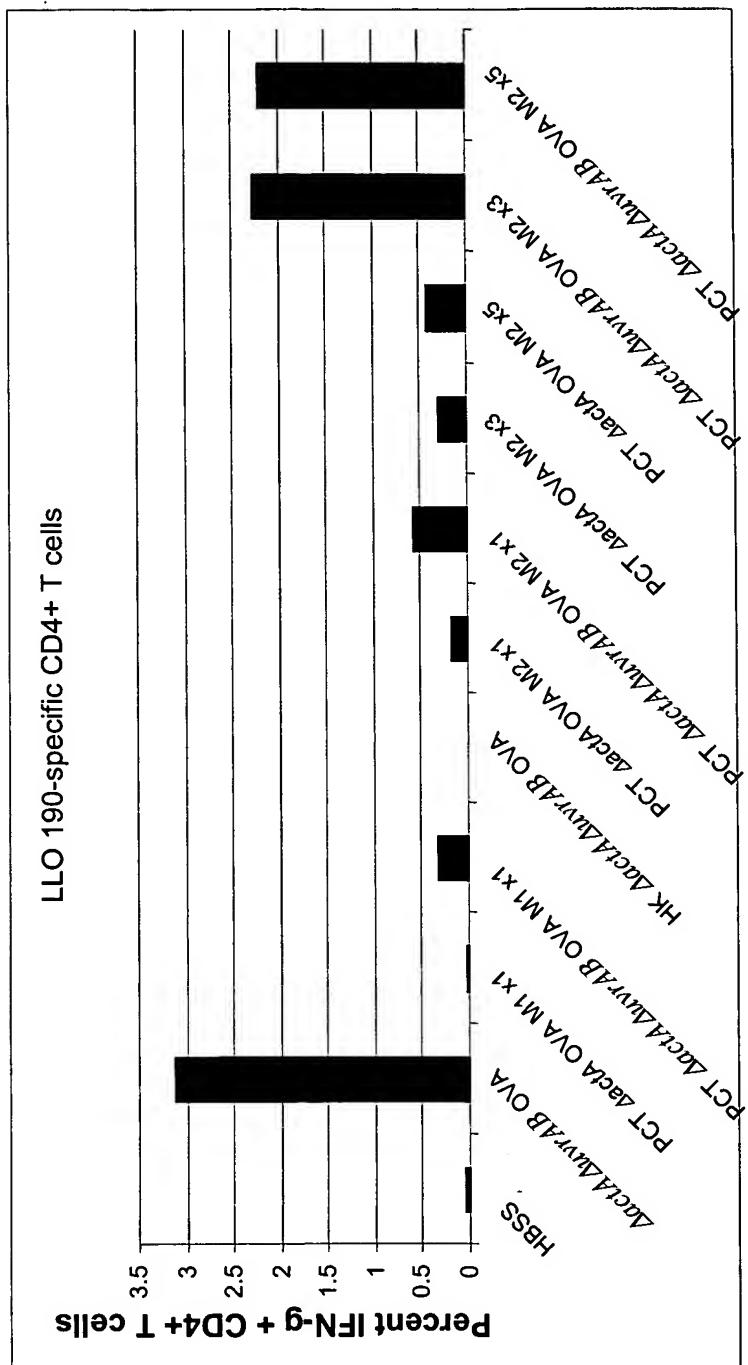


Figure 12B

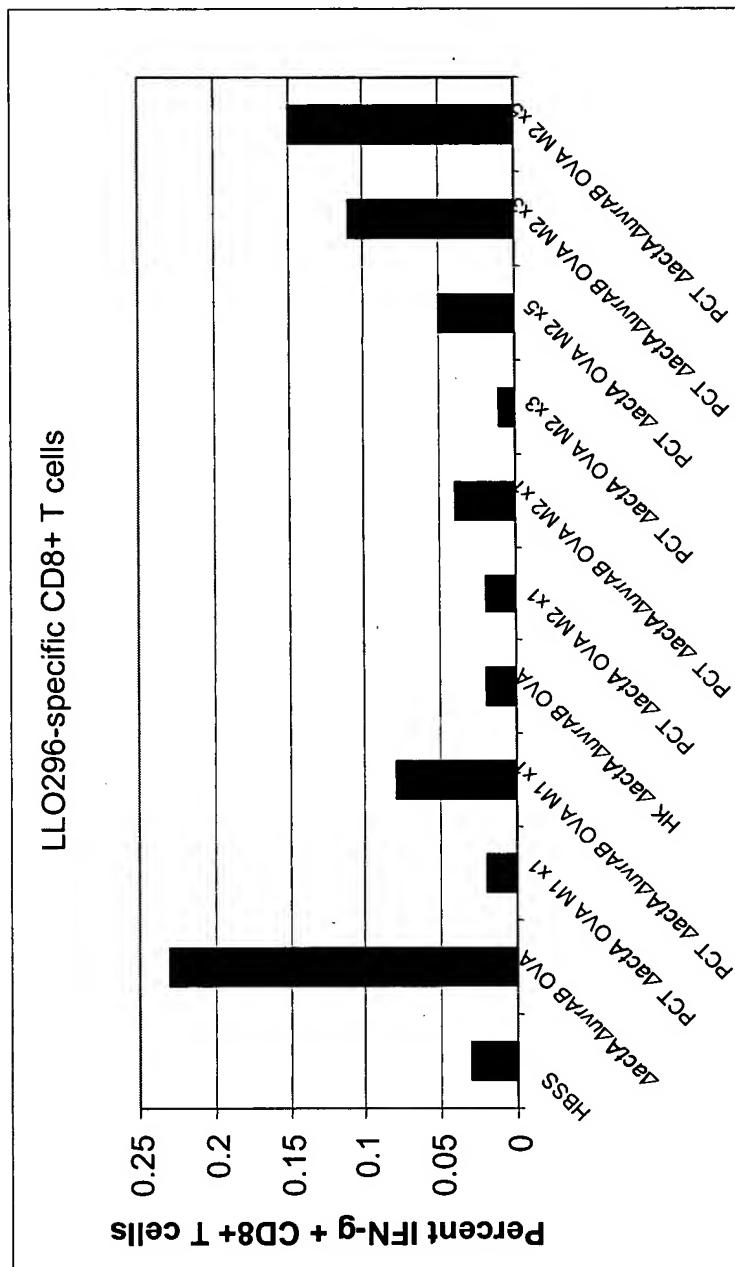


Figure 12C

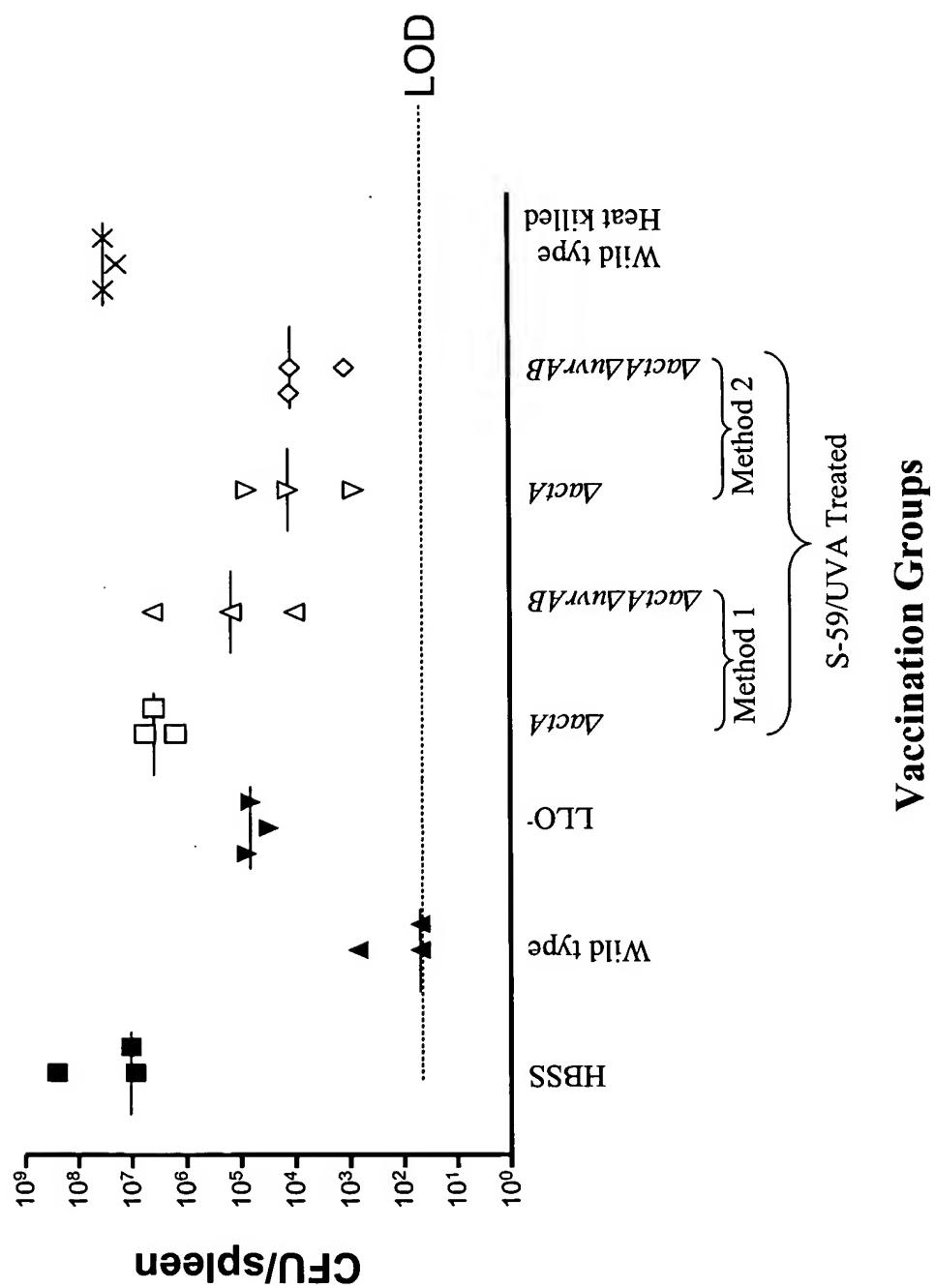


Figure 13A

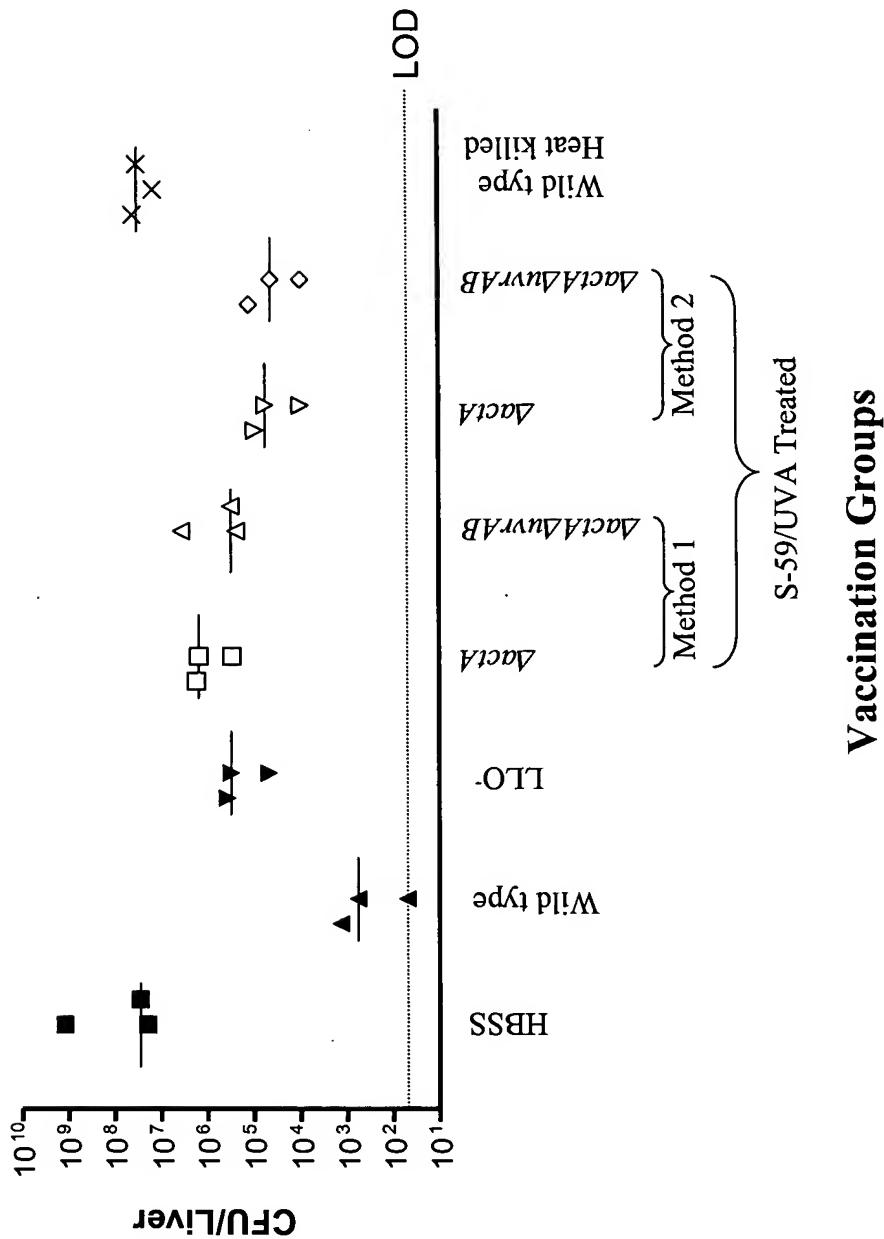


Figure 13B

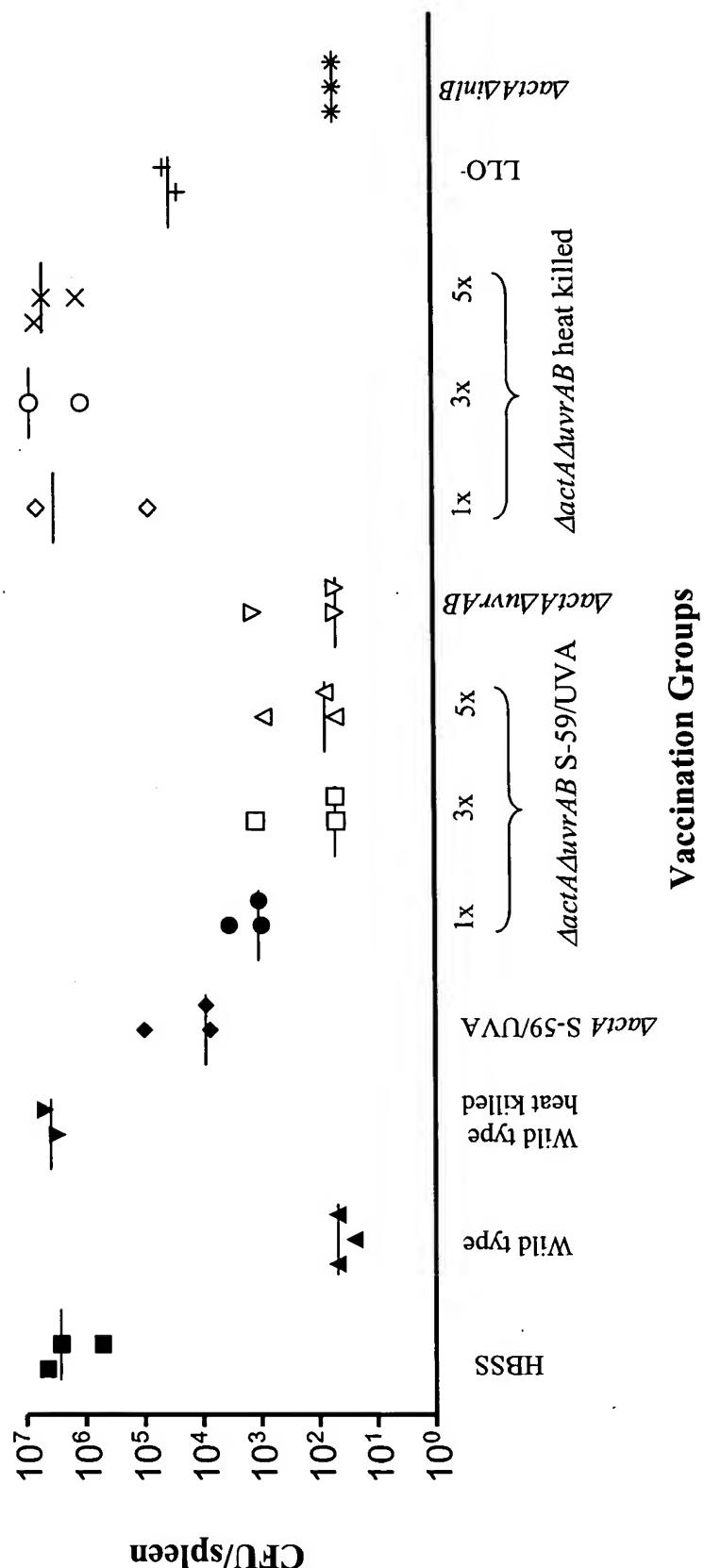


Figure 14A

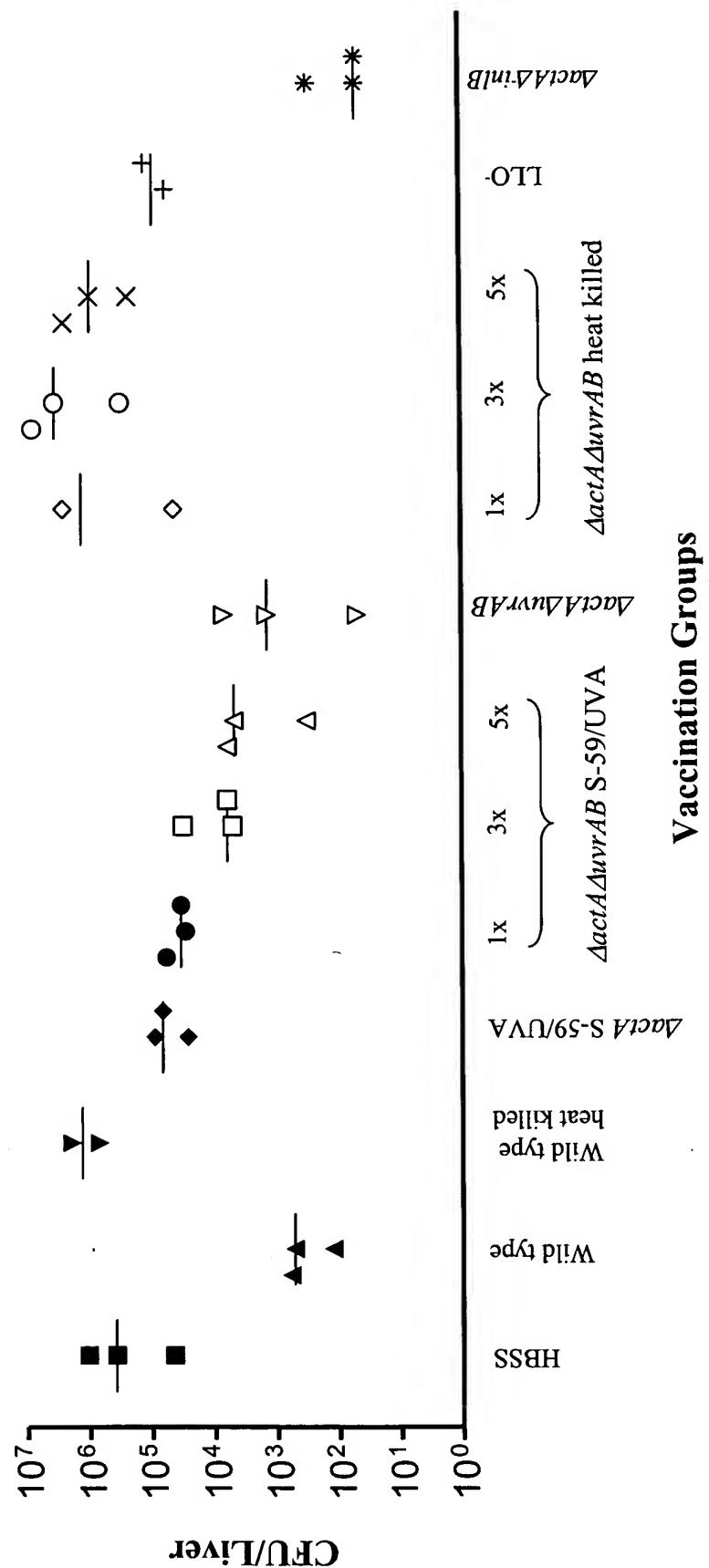


Figure 14B

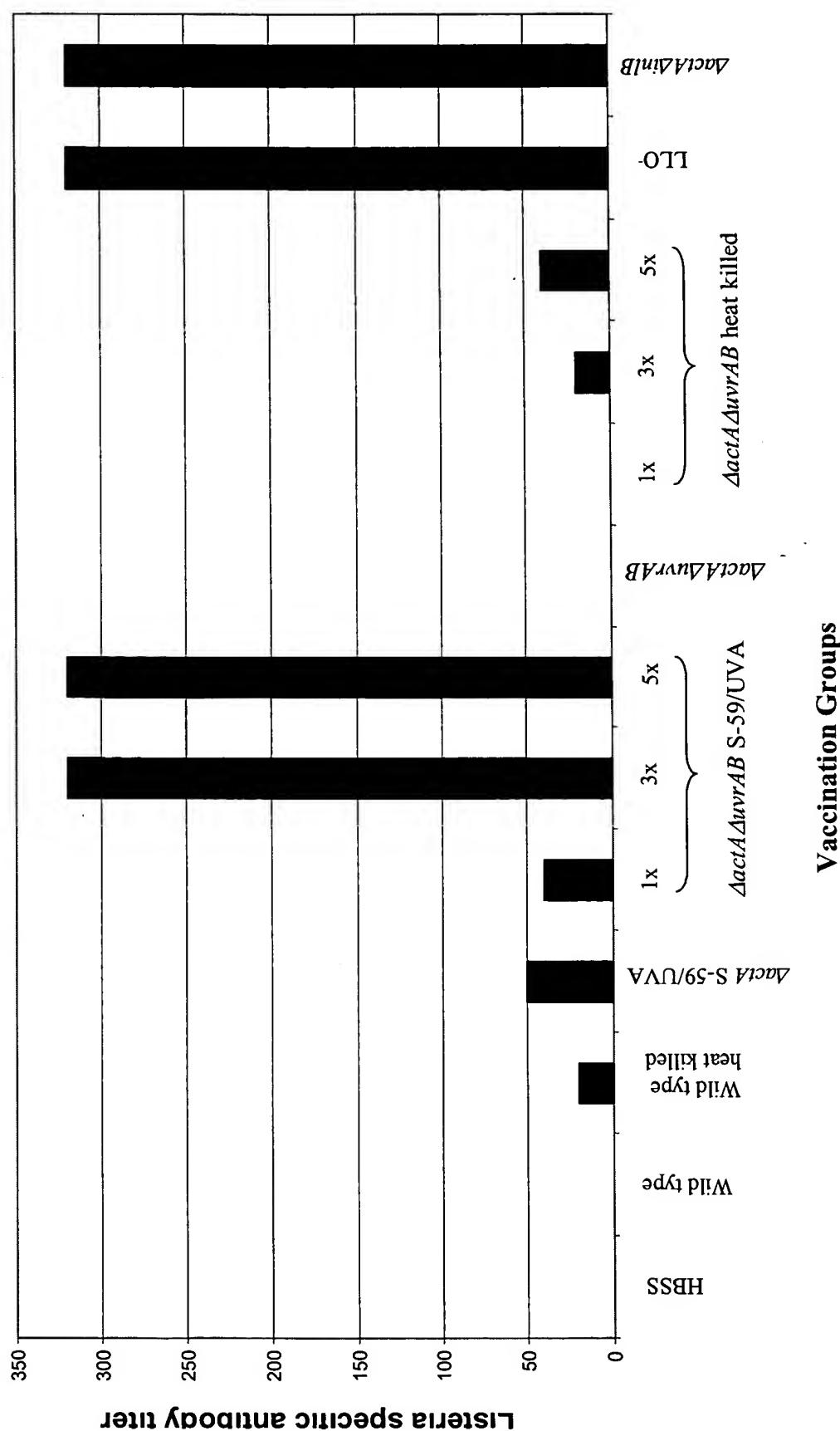


Figure 15

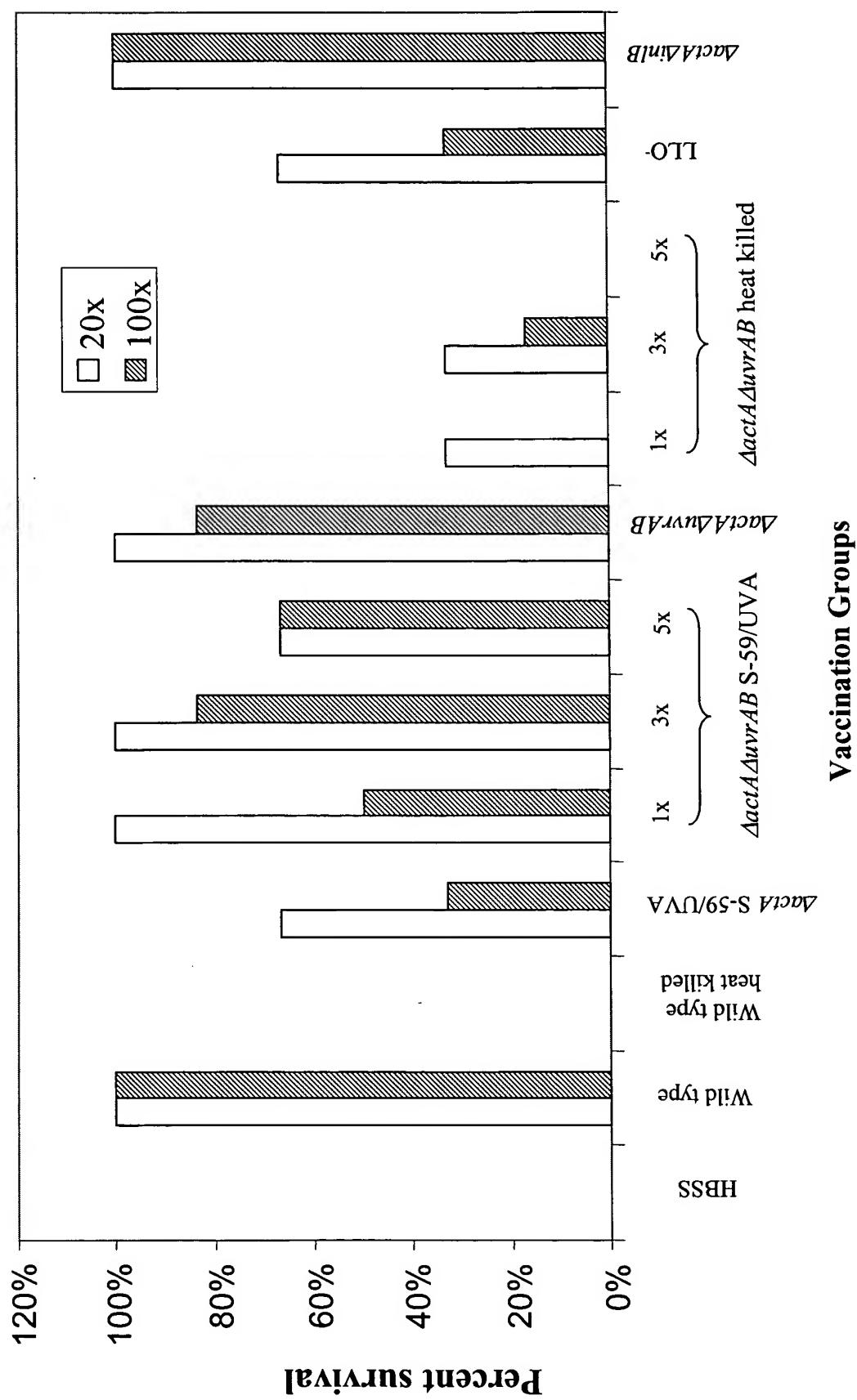


Figure 16

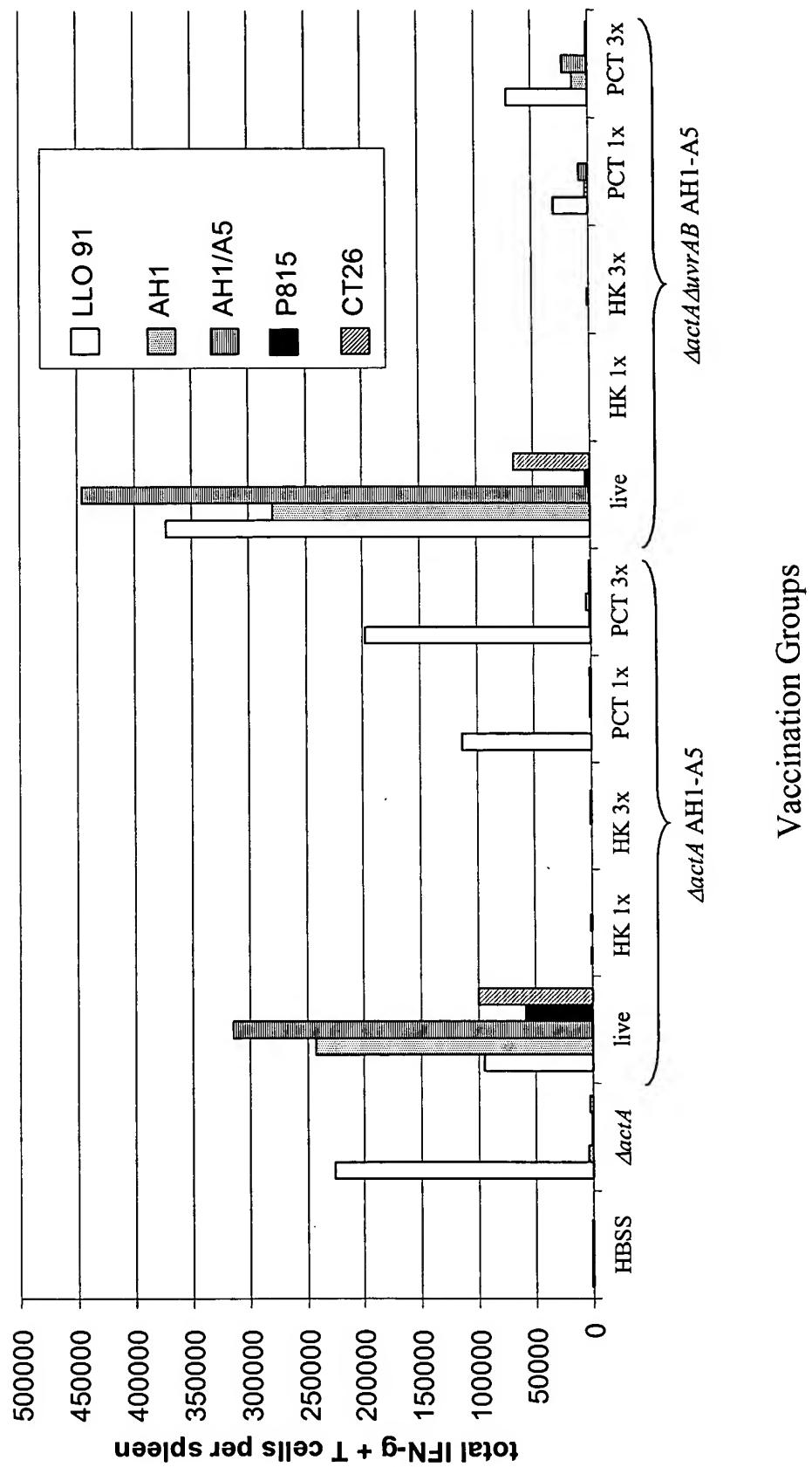


Figure 17

ELISPOT for AH1/A5-specific T cells

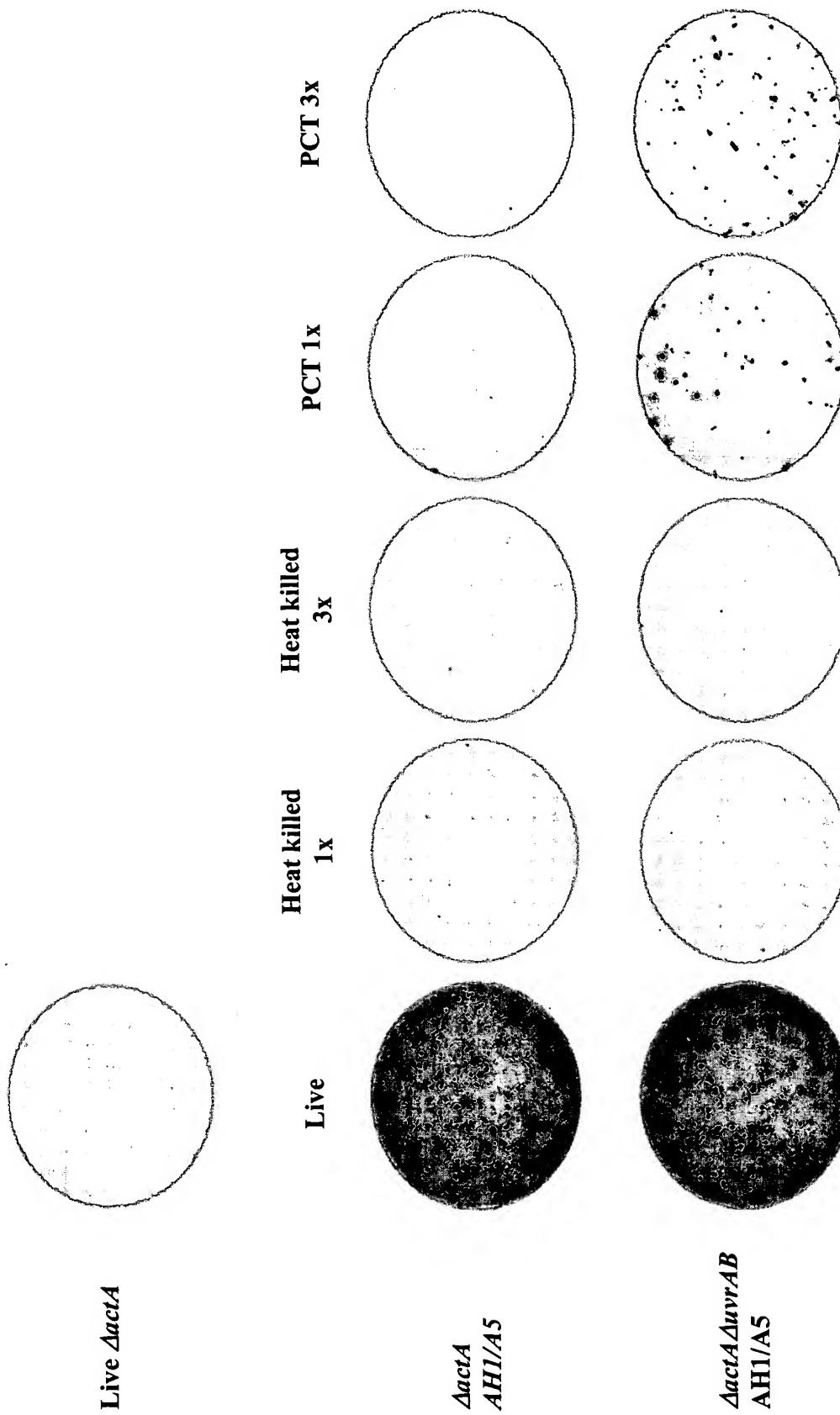


Figure 18A

ELISPOT for AH1-specific T cells

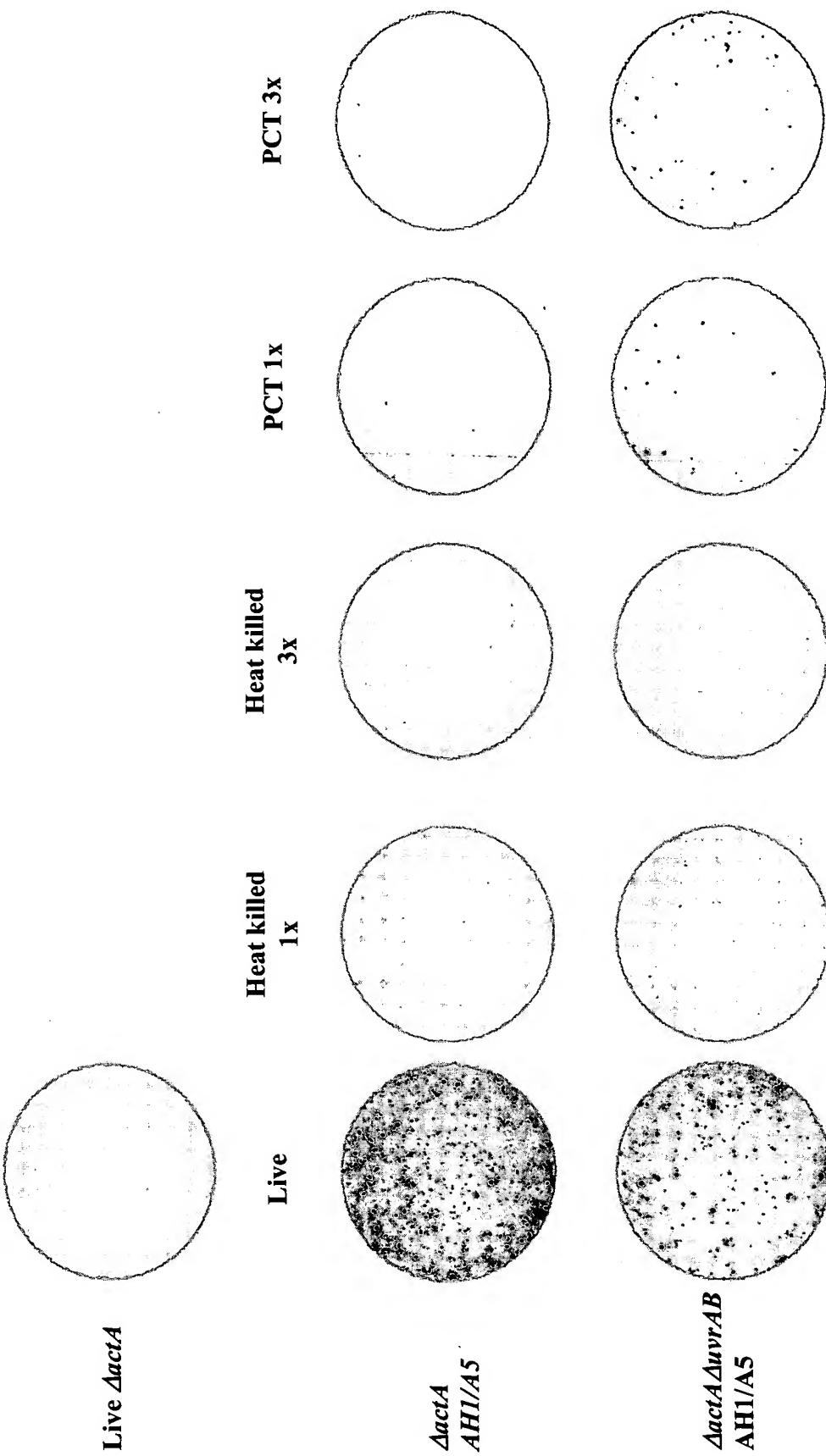
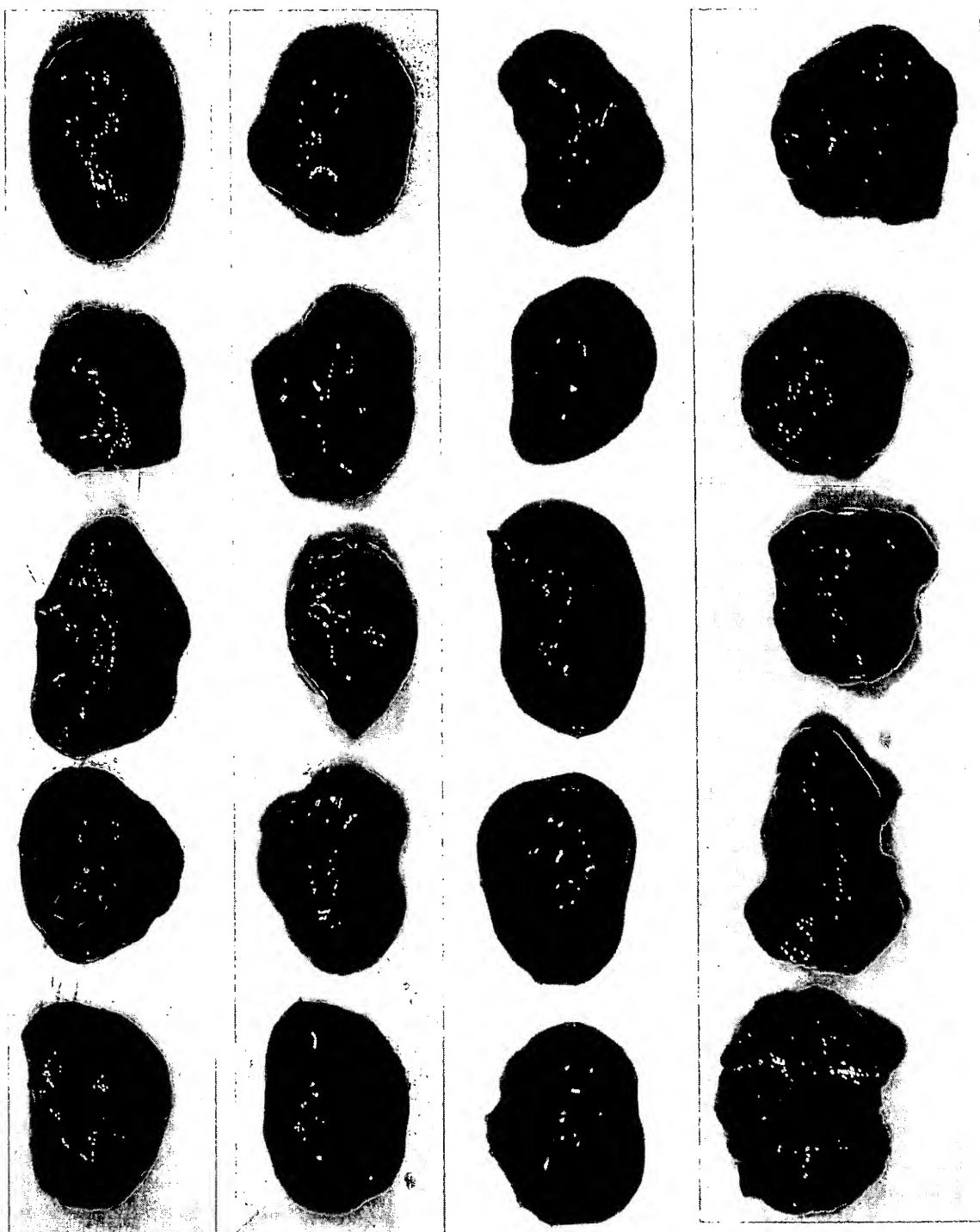


Figure 18B



$\Delta actA$
2e7 IV

$\Delta actA$ OVA
2e7 IV

$\Delta actA \Delta uvrAB$ OVA
+PCT 1e9

HK $\Delta actA$ OVA
1e9

Figure 19A

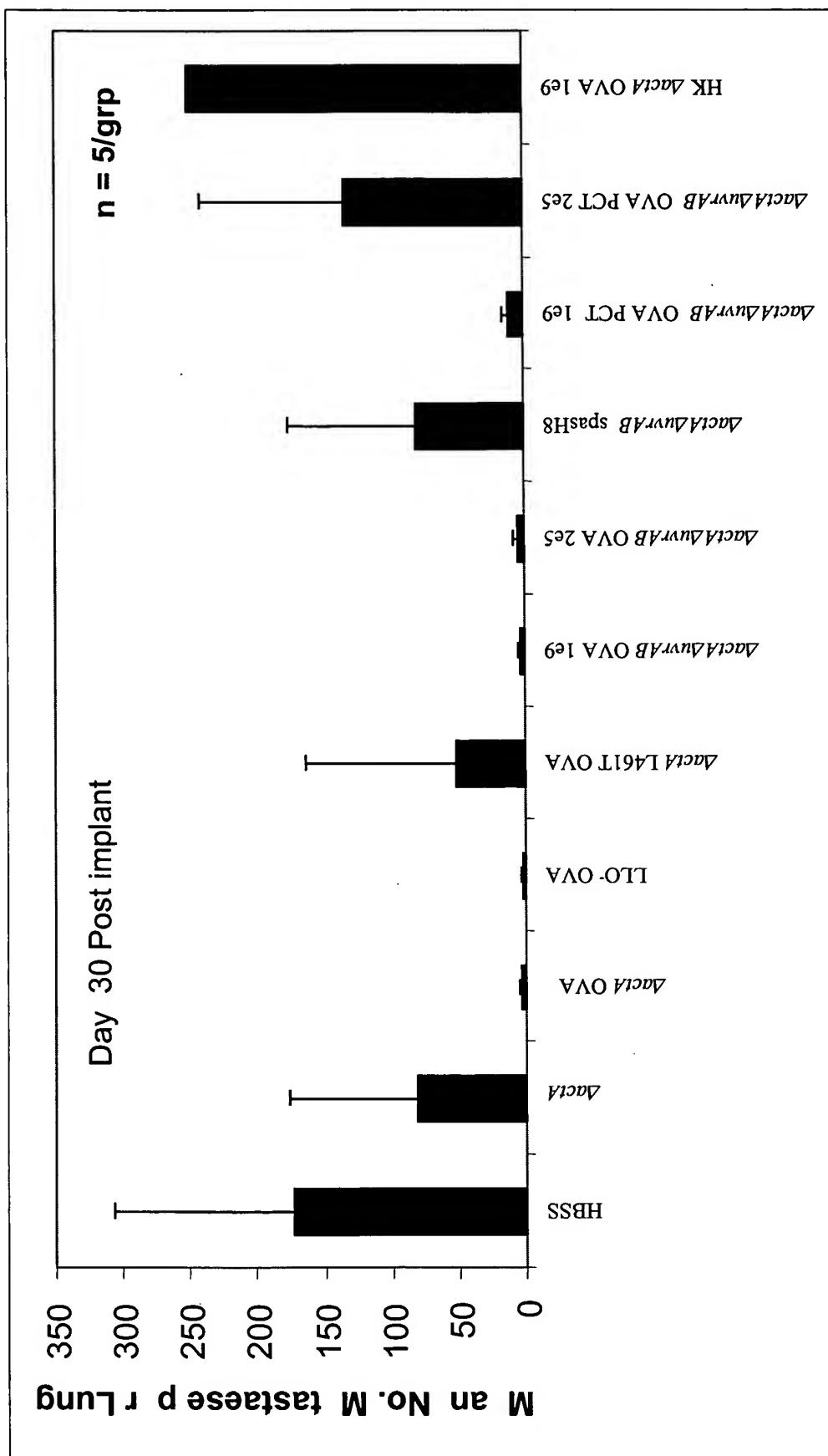


Figure 19B

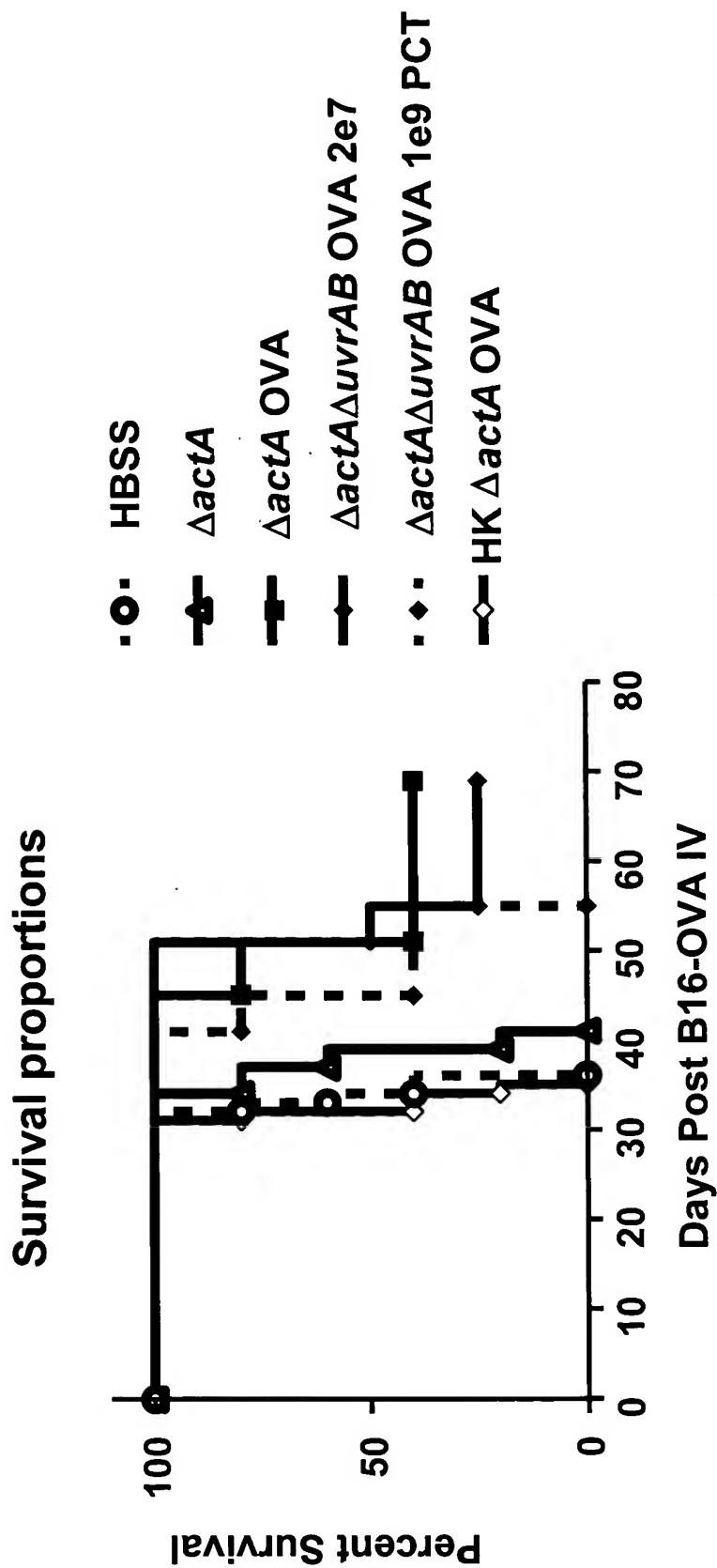


Figure 19C

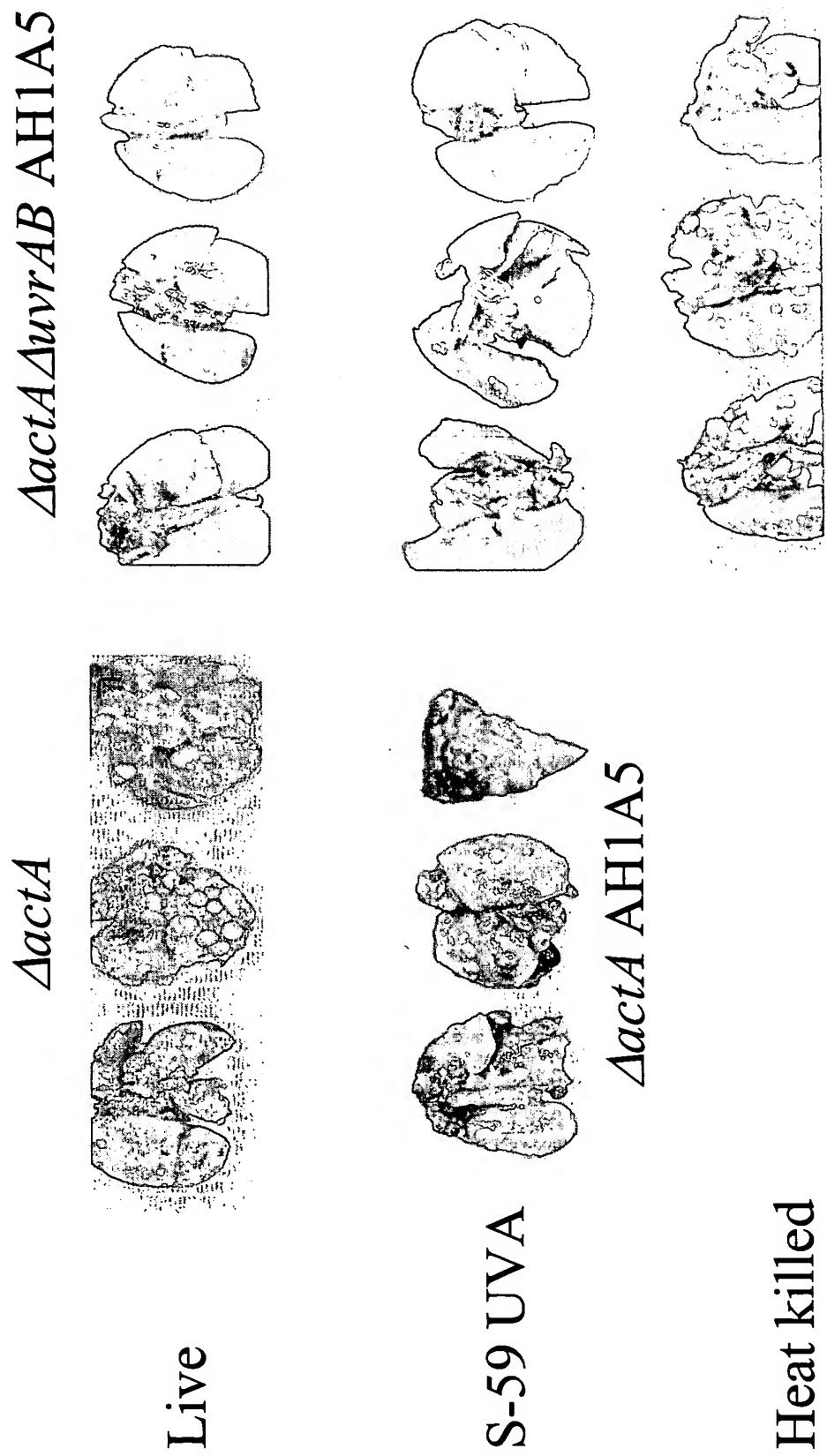


Figure 20A

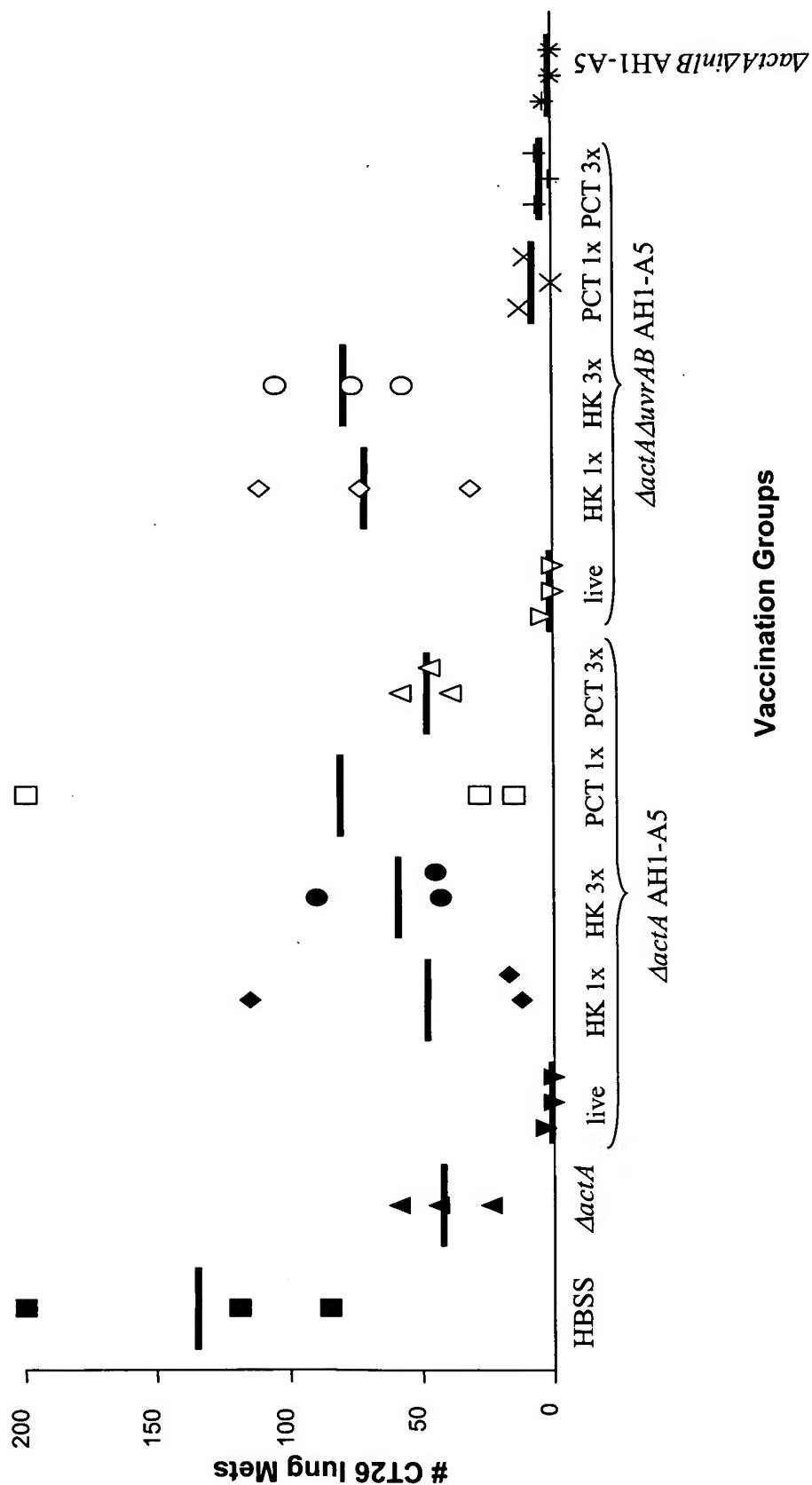


Figure 20B

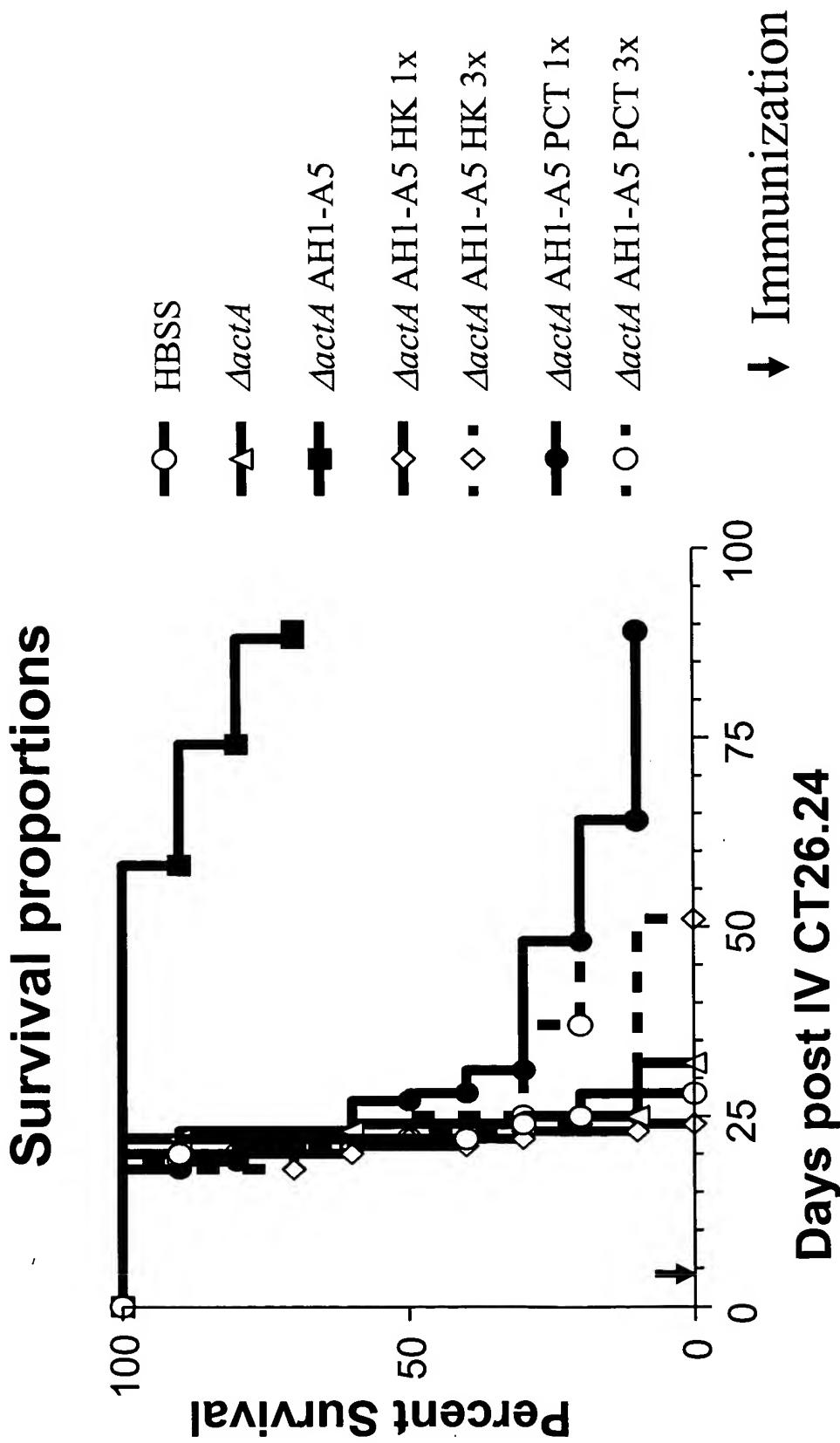


Figure 20C

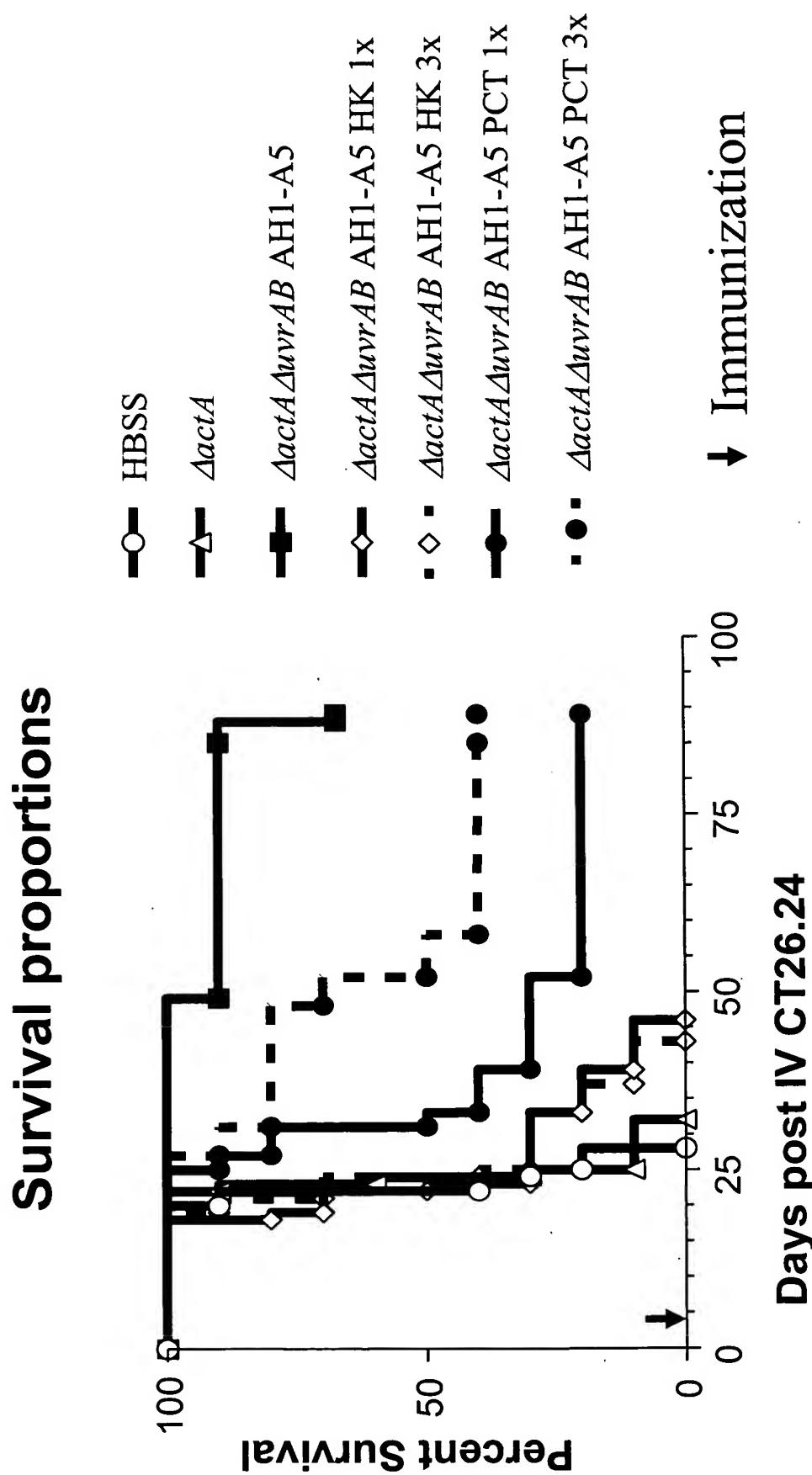
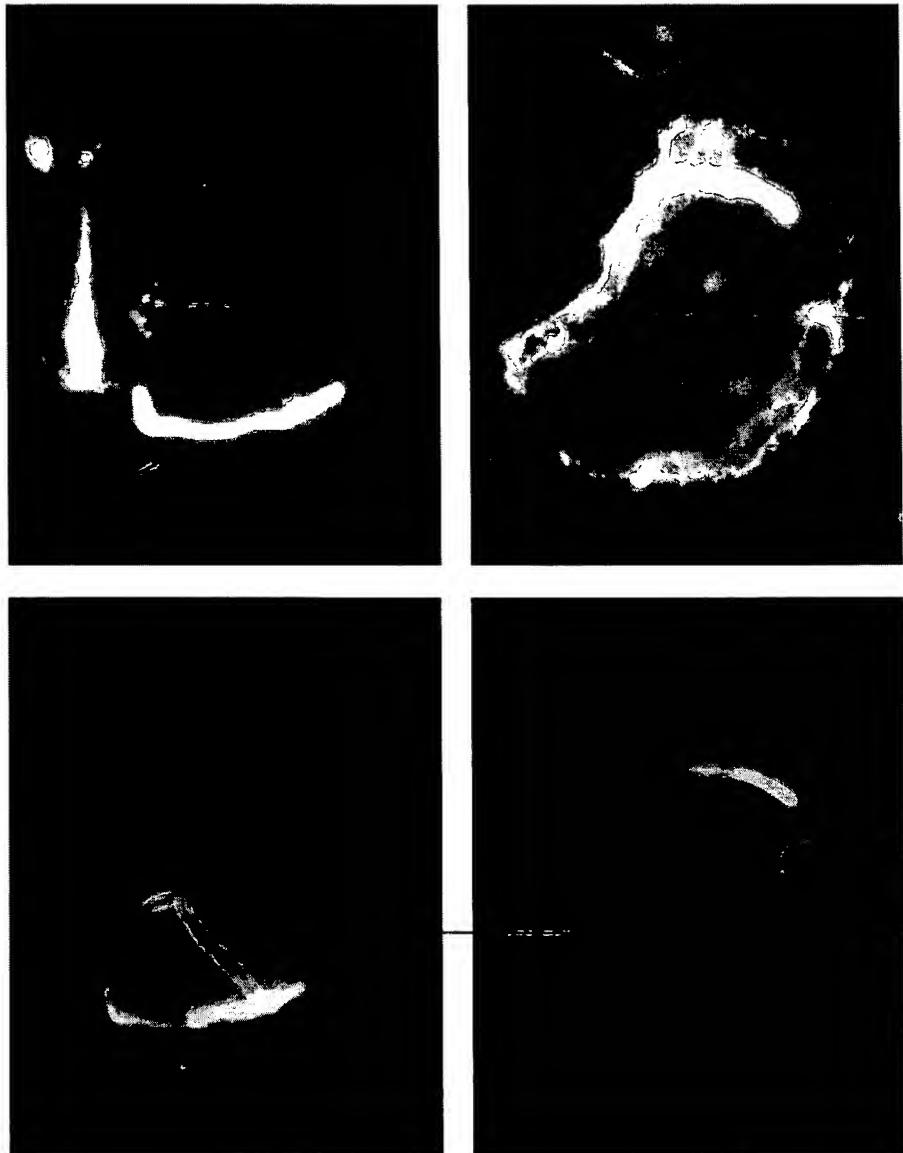


Figure 20D

MERGED IMAGE RHODAMINE IMAGE



Listeria in phagolysosome,
not detected in Rhodamine image

Figure 21A

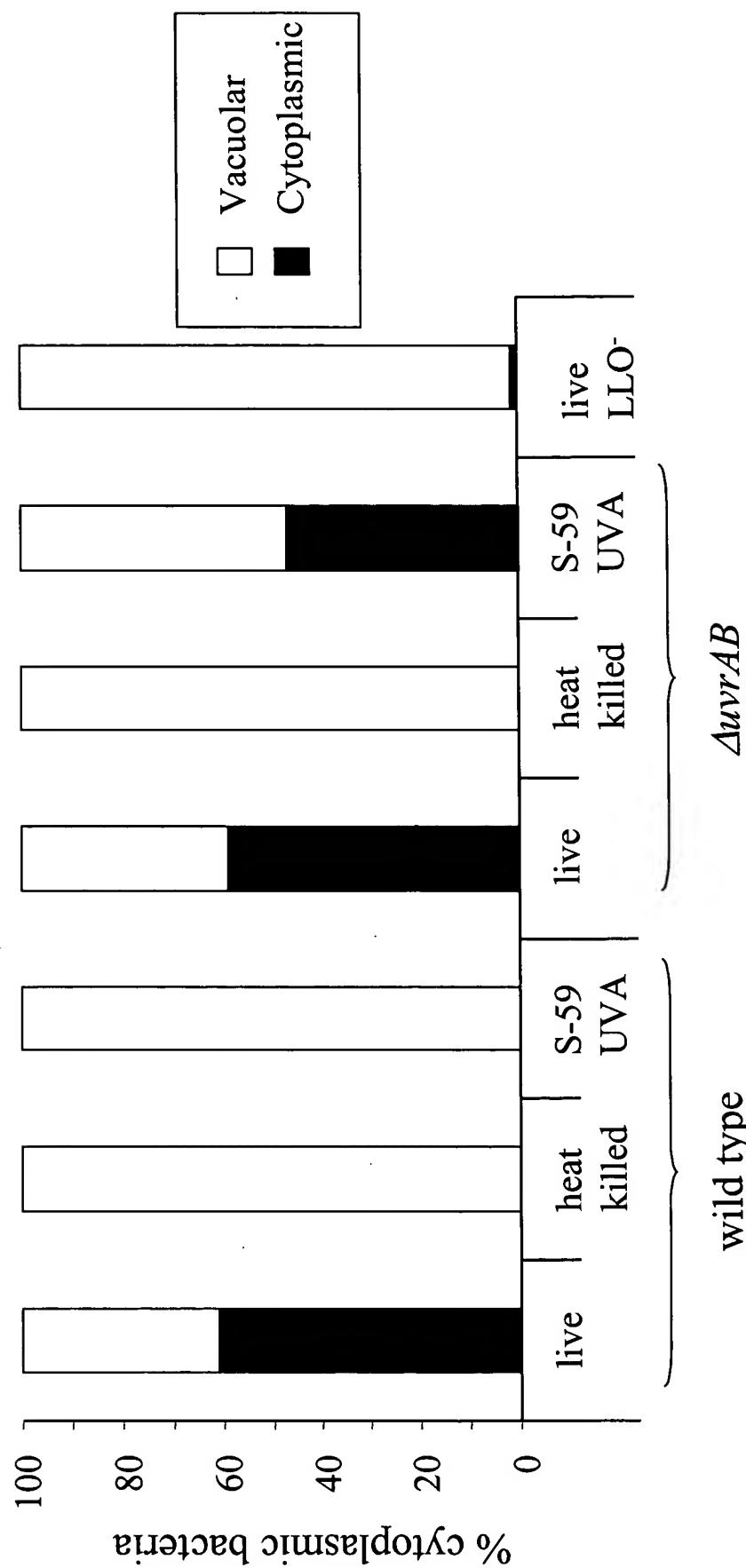


Figure 21B

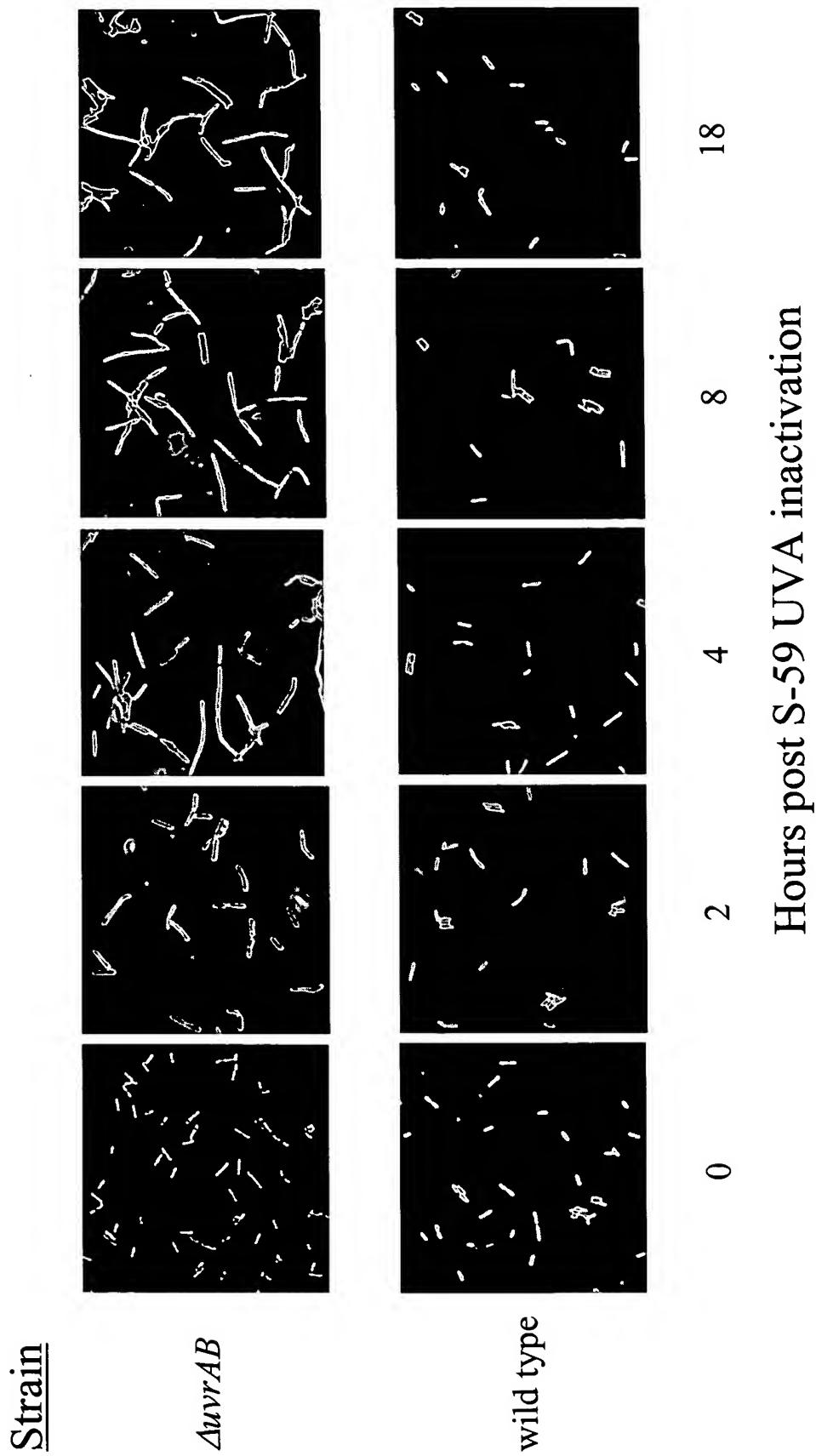


Figure 22

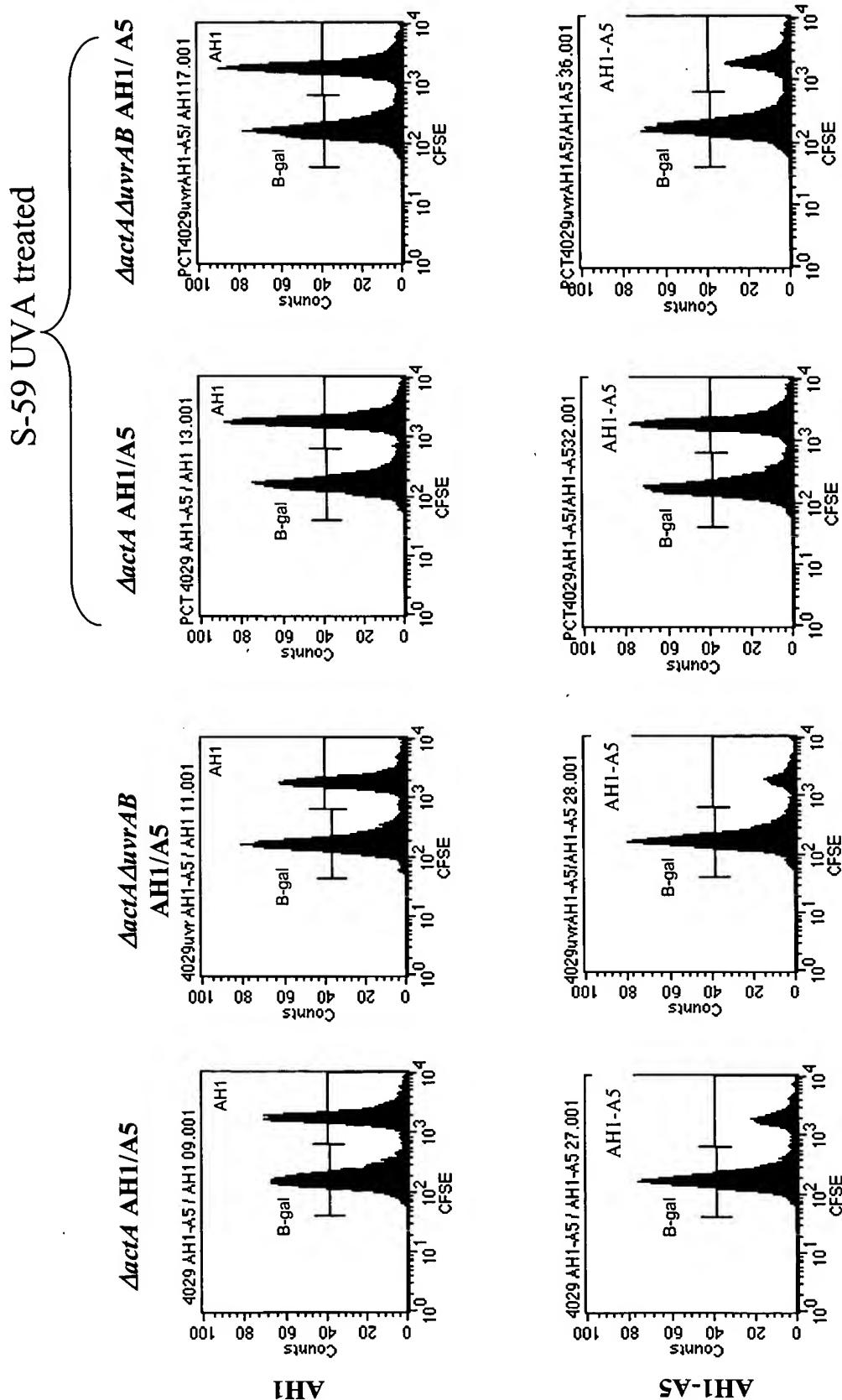


Figure 23A

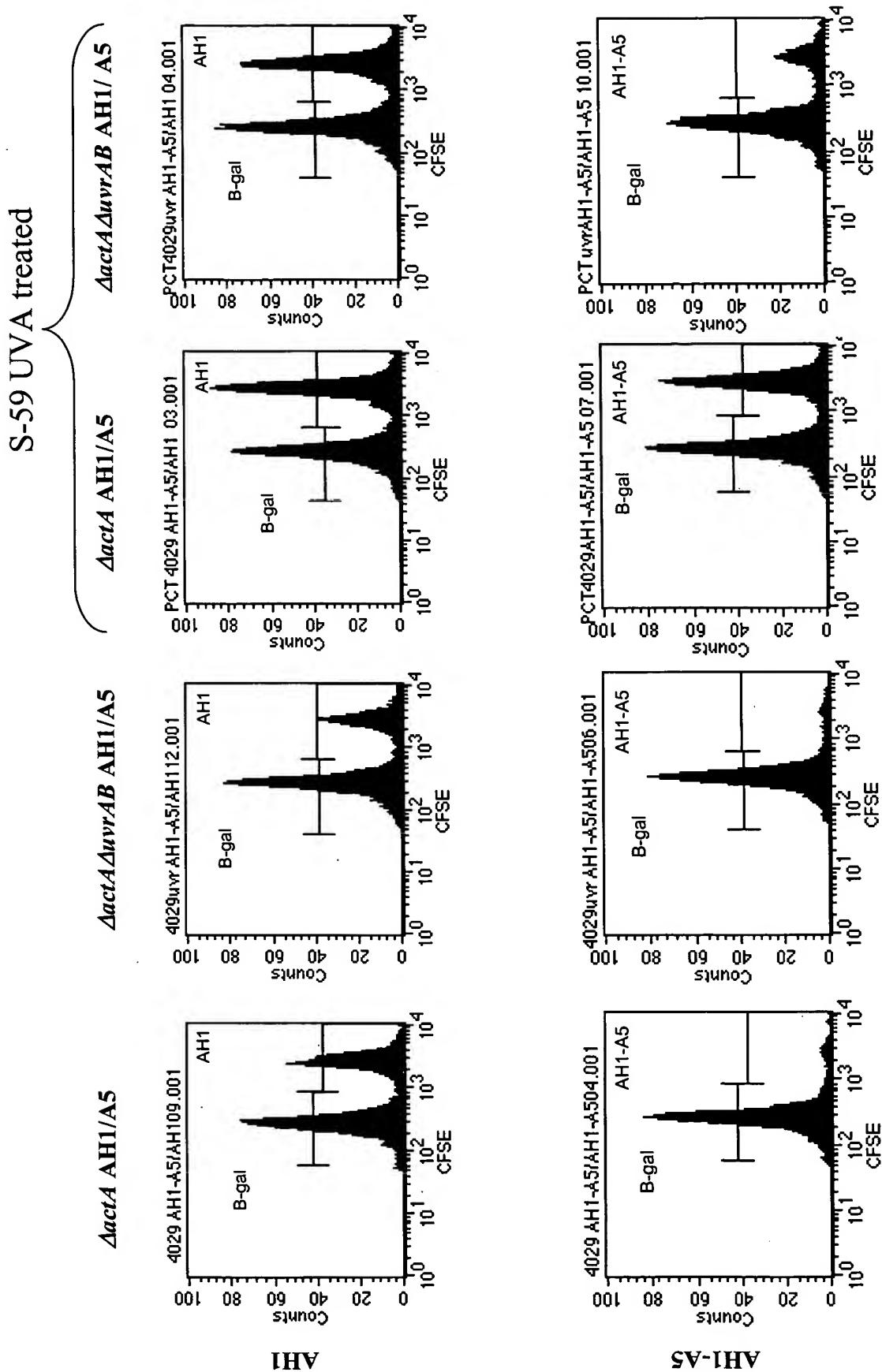


Figure 23B

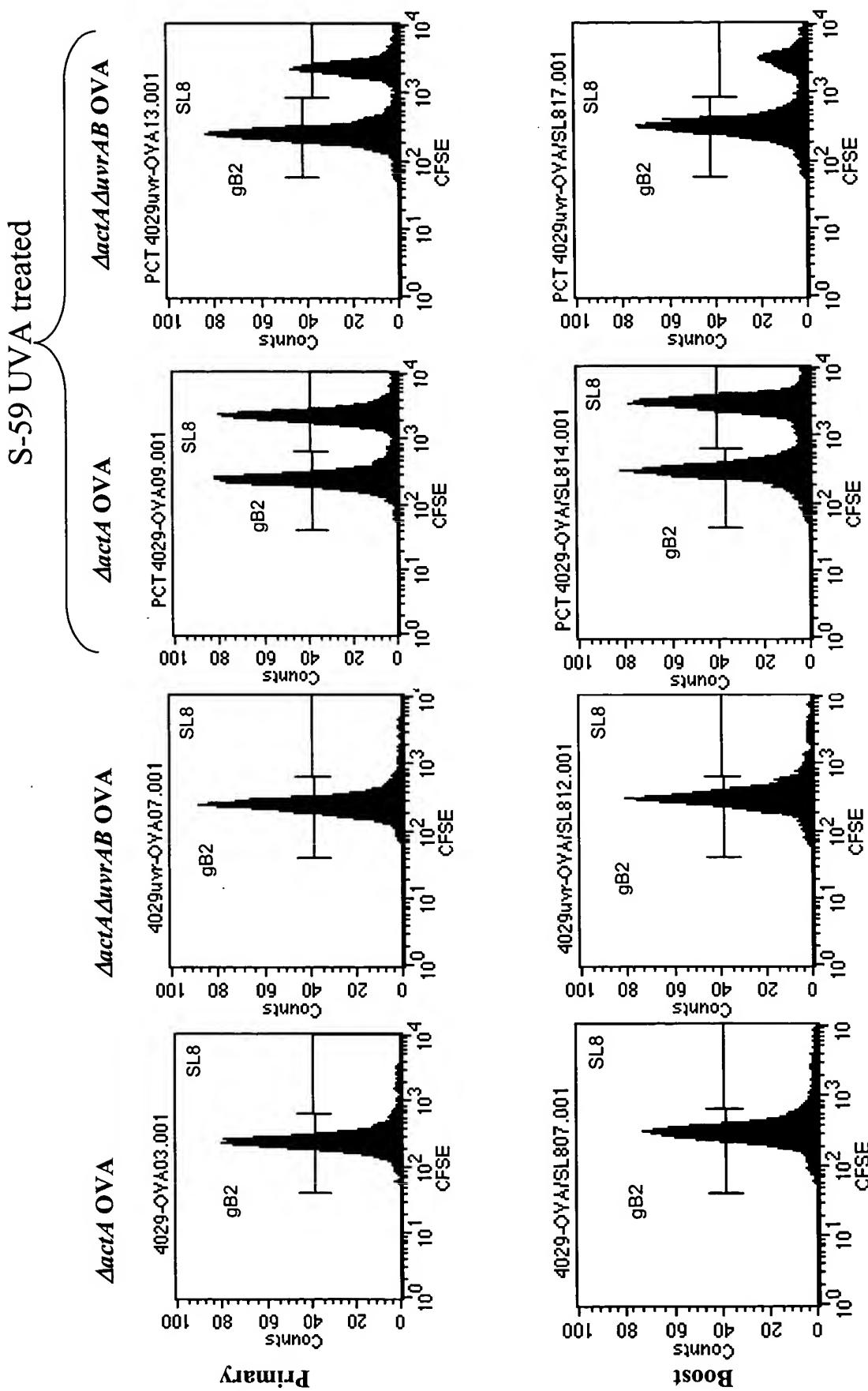


Figure 23C

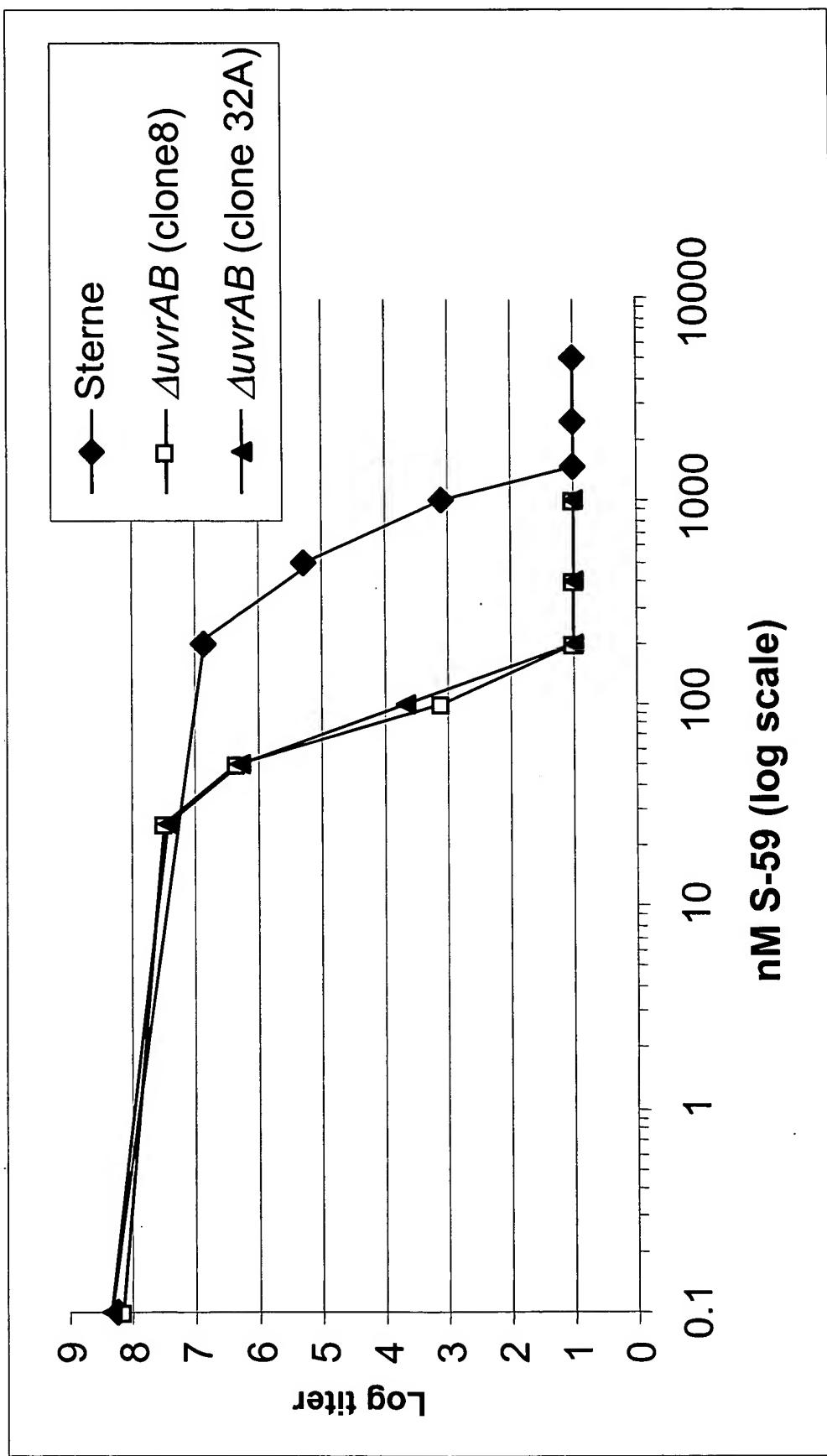


Figure 24

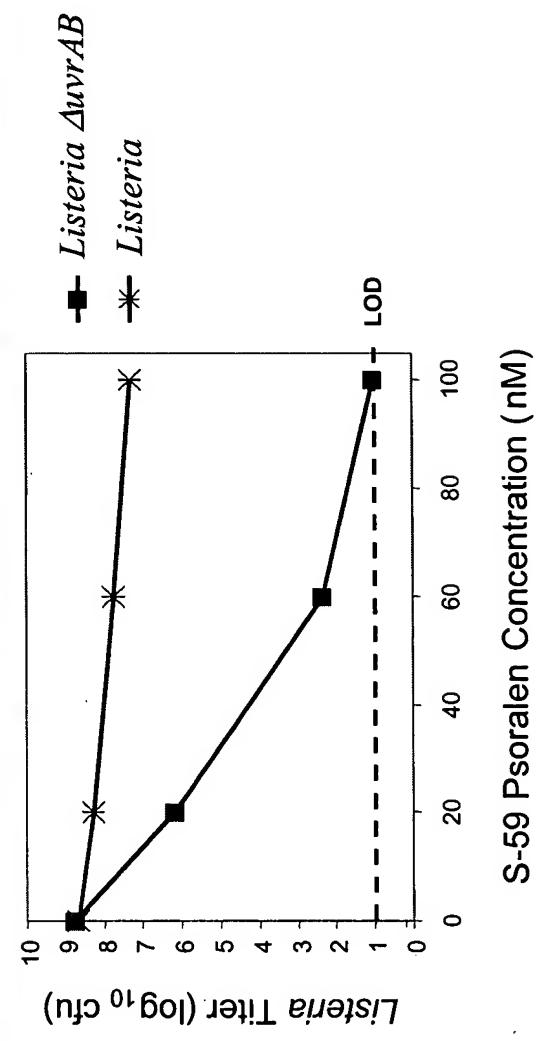
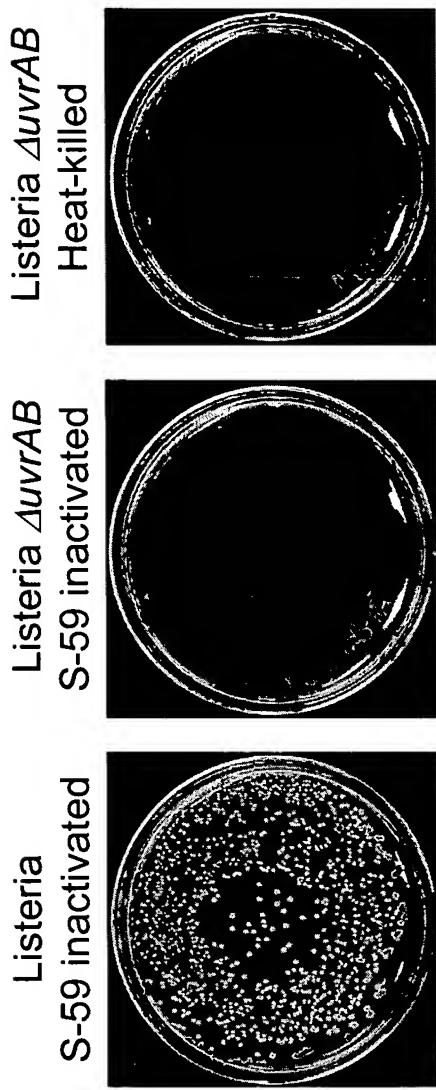


Figure 25

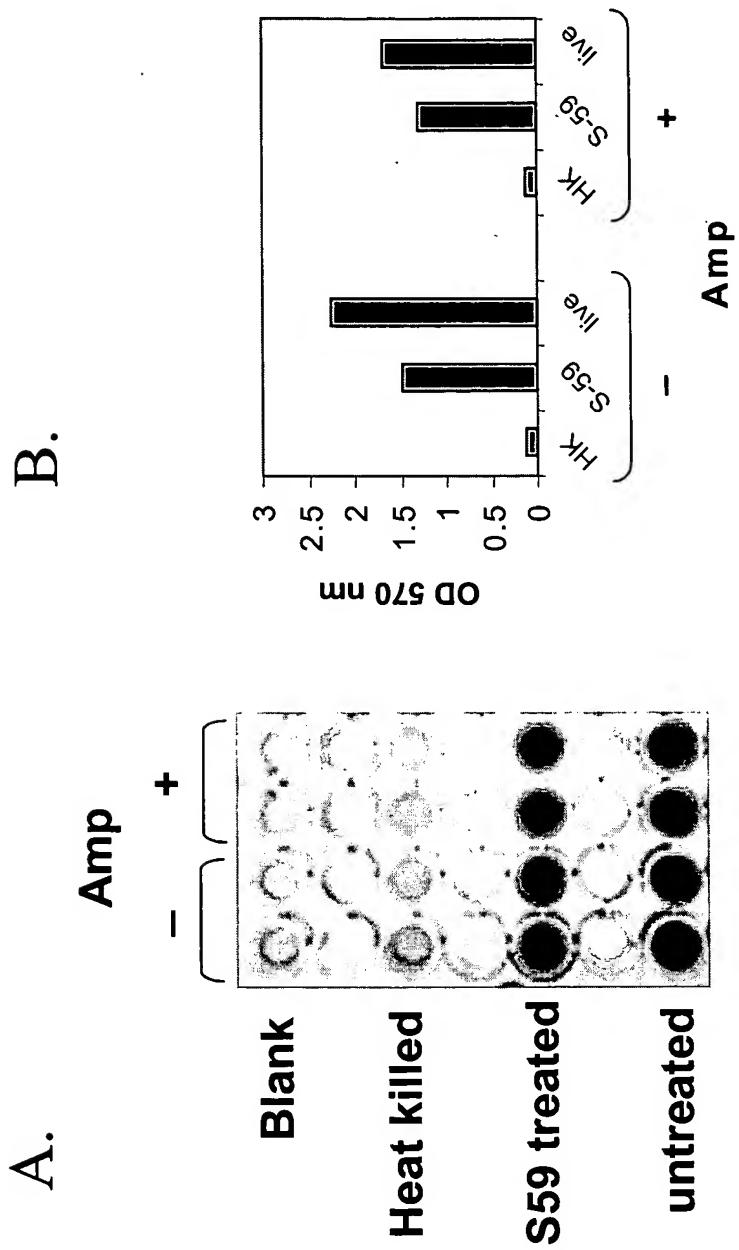
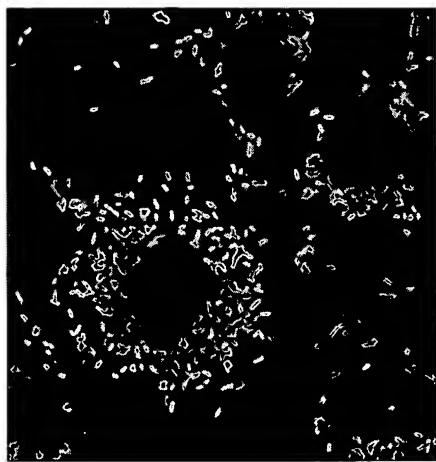


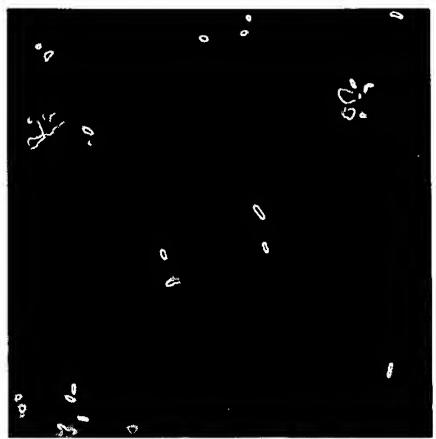
Figure 26



A. Wild type



B. Wild type



C. *Listeria Ahly (LLO⁻)*



D. *Listeria ΔuvrAB*
S-59 UVVA inactivated



E. *Listeria ΔuvrAB*
S-59 UVVA inactivated

Figure 27

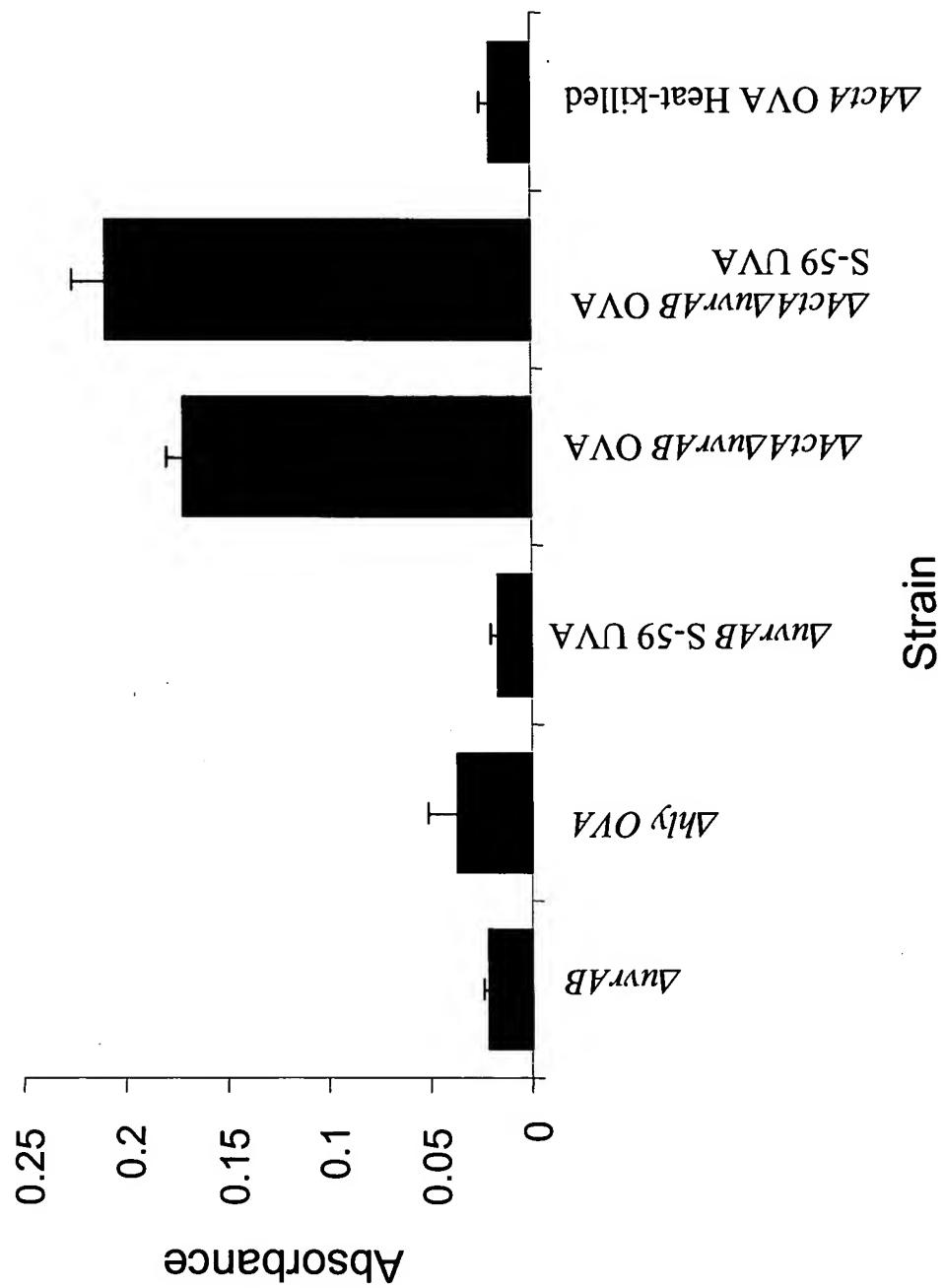


Figure 28

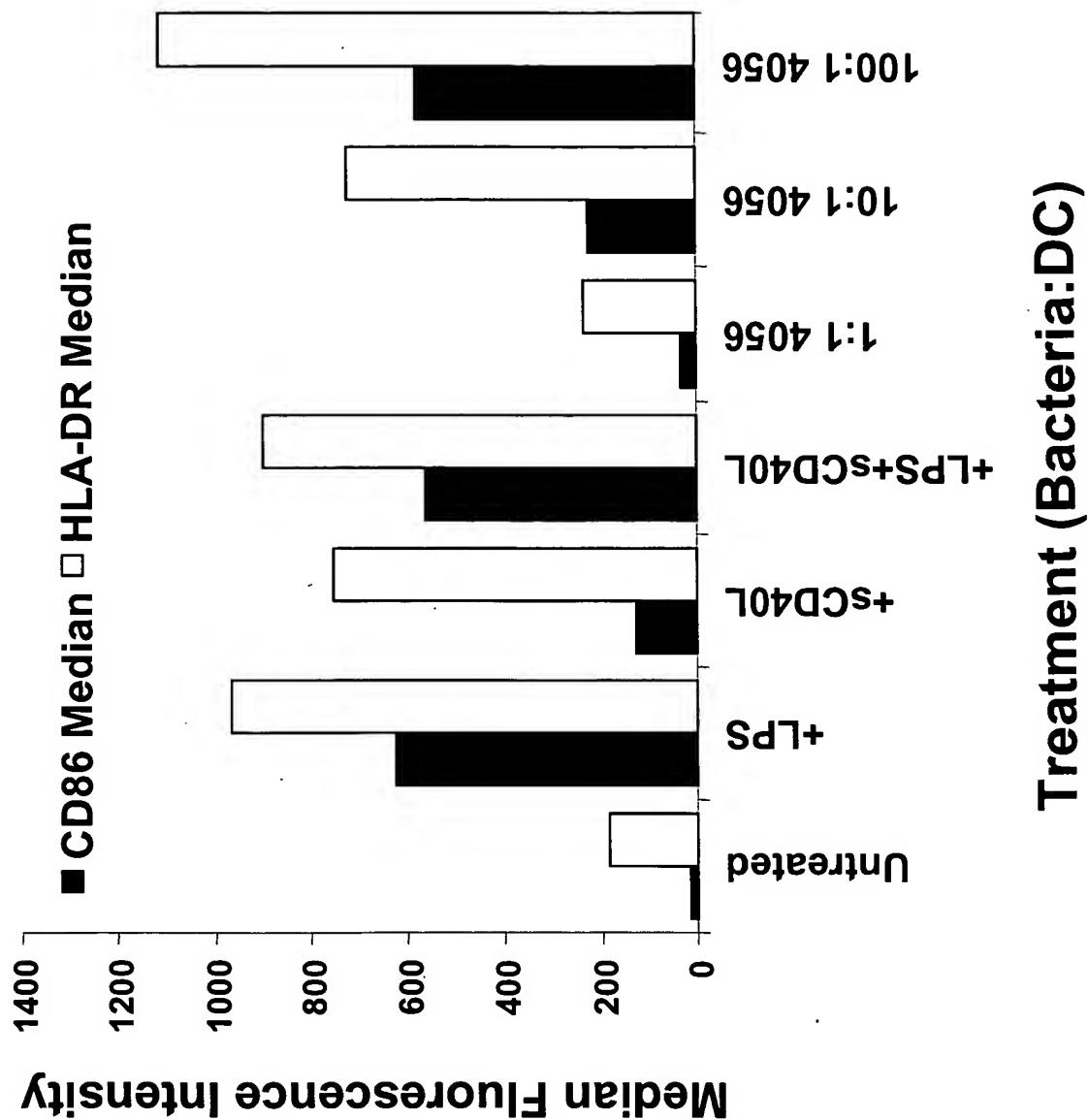
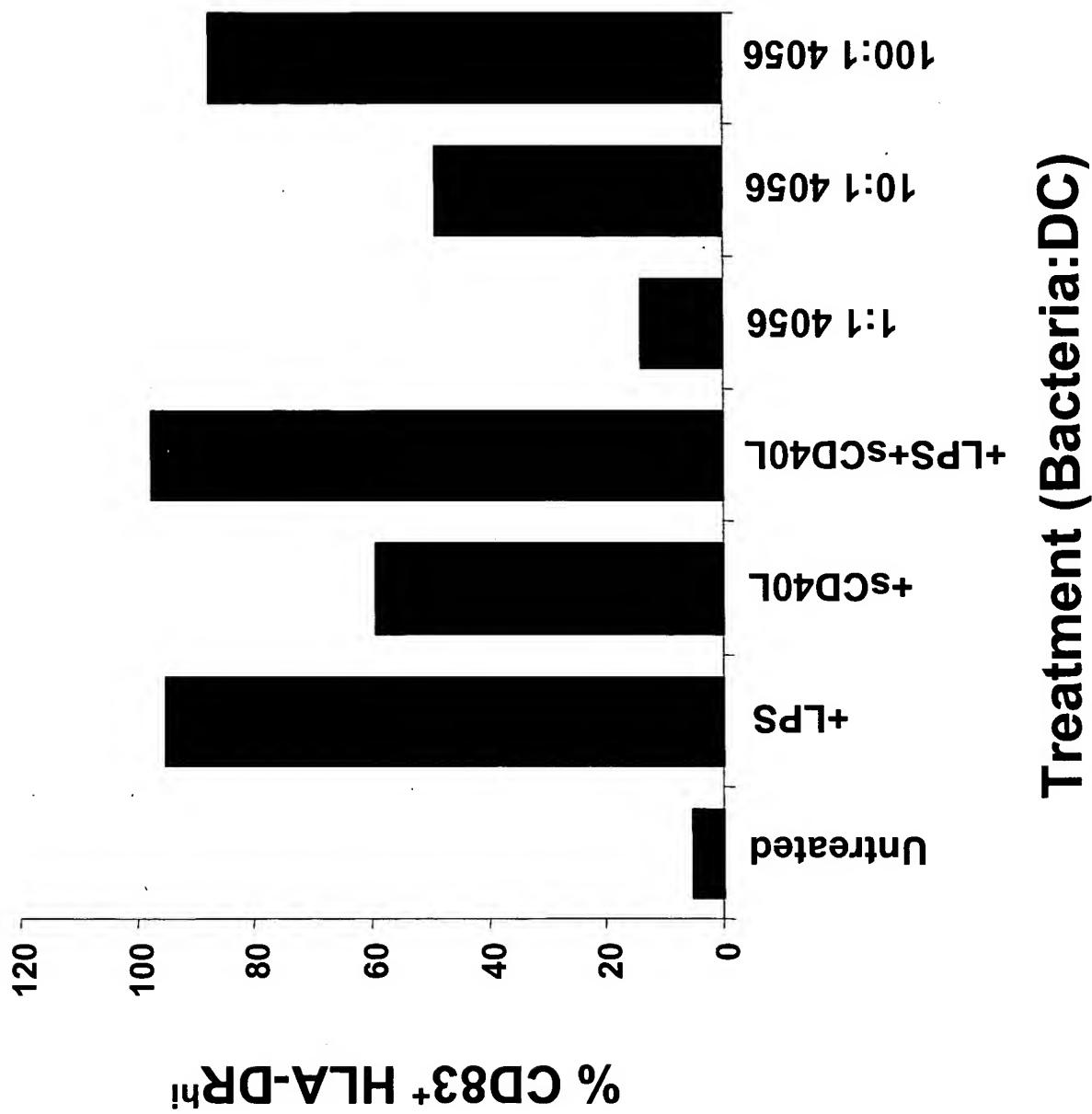
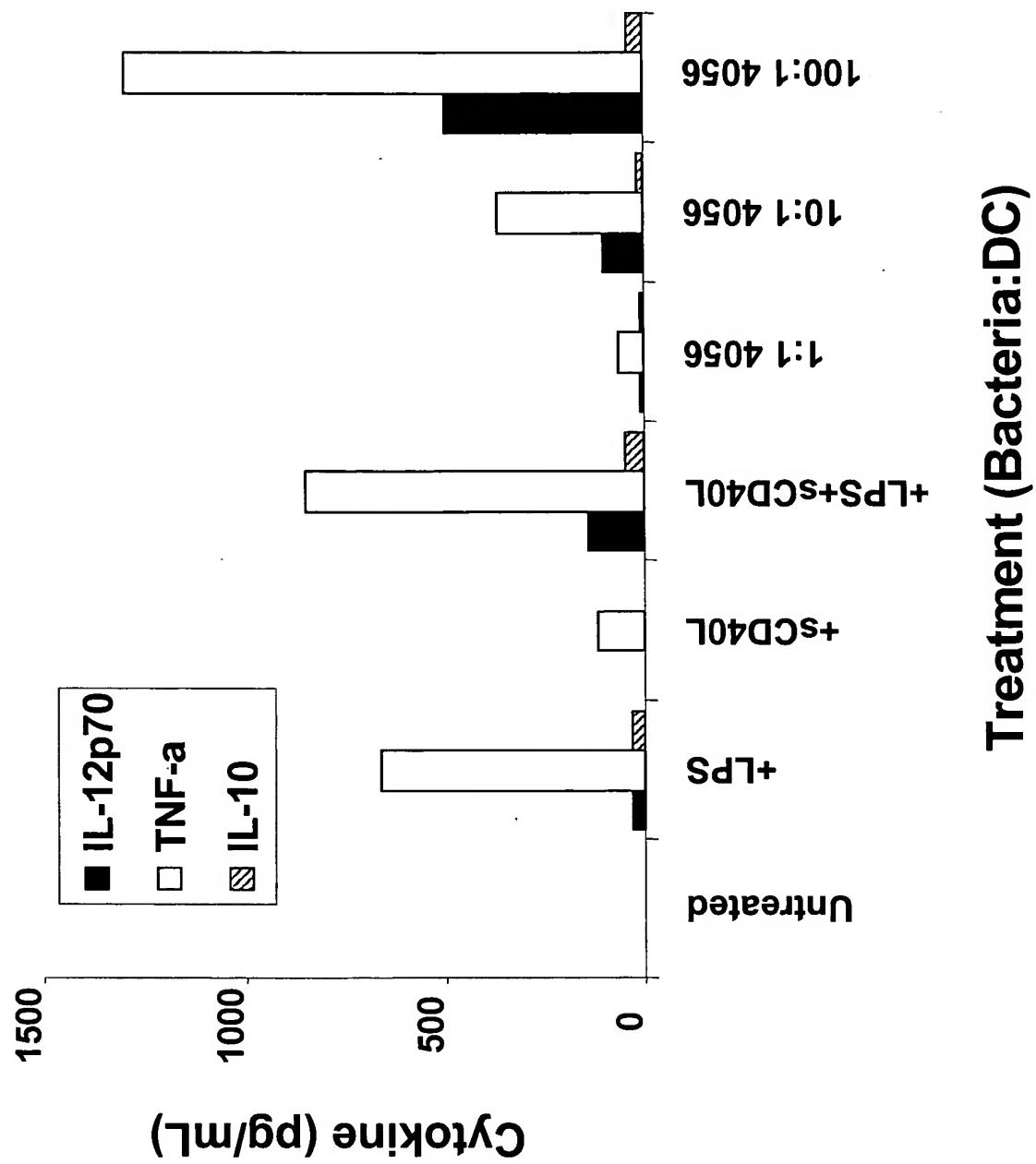


Figure 29A





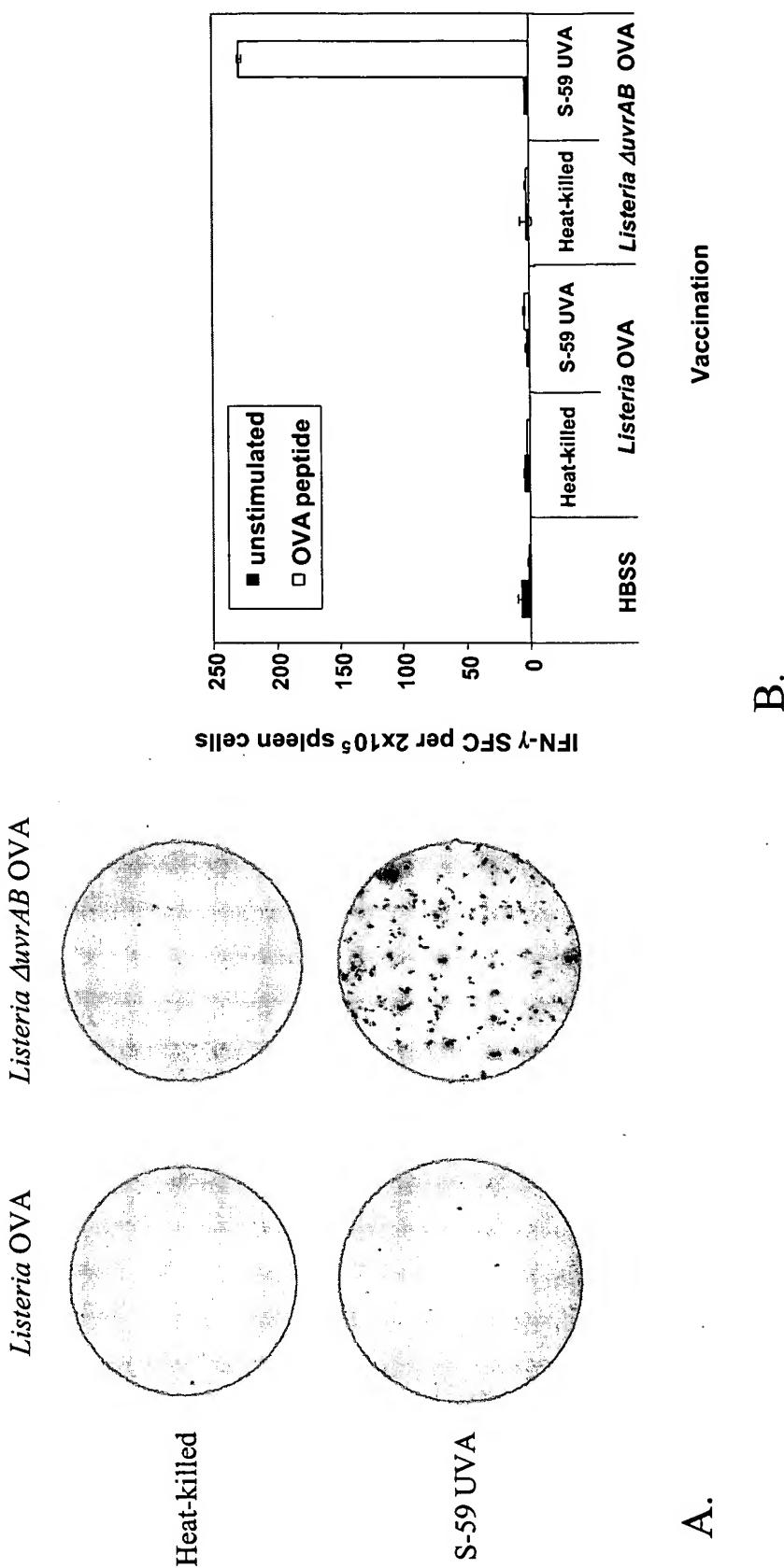


Figure 30

**LLO_(ss^{PEST})-OVA/PR3 class I
Primary Amino Acid Sequence**

M	K	K	I	M	L	V	F	I	T	L	I	L	V	S	L	P	I	A	Q	Q	T	E	A	K	D	A	S	A	F	N	K	E	N	S	I	S	M	A	P		
A	S	P	P	A	S	P	K	T	P	I	E	K	K	H	A	D	E	I	D	S	P	S	Y	V	Y	H	Q	F	A	A	D	Q	A	R	E	L	I	N	S	W	
V	E	S	Q	T	N	G	I	I	R	N	V	L	Q	P	S	S	V	D	S	Q	T	A	M	V	L	V	N	A	I	V	F	K	C	L	W	E	K	T	F	K	
D	E	D	T	Q	A	M	P	F	R	V	T	E	Q	E	S	K	P	V	Q	M	M	Y	Q	I	G	L	F	R	V	A	S	M	A	S	E	K	M	K	I		
L	E	L	P	F	A	S	G	T	M	S	M	L	V	L	L	P	D	E	V	S	G	L	E	Q	L	E	S	I	I	N	F	E	K	L	T	E	W	T	V	L	Q
E	L	N	V	T	V	R	T	S	S	N	V	M	E	E	R	K	I	K	V	Y	L	P	R	M	K	M	E	E	K	Y	N	L	T	S	V	L	M	A	M	G	
I	T	D	V	F	S	S	S	A	N	L	S	C	I	S	S	A	E	S	L	K	I	S	Q	A	V	H	A	H	A	E	I	N	E	A	G	R	E	V	V	G	
S	A	E	A	G	V	D	A	A	S	V	S	E	F	R	A	D	H	P	F	L	F	C	I	K	H	I	A	T	N	A	V	L	F	F	G	R	C	V	S		

S I I N F E K L: OVA H-2 K^b epitope

V L Q E L N V T V: PR3 HLA A-2 restricted class I epitope (a.k.a. PR1)

Listeria secA1 signal peptide and PEST sequence is underlined

Figure 31

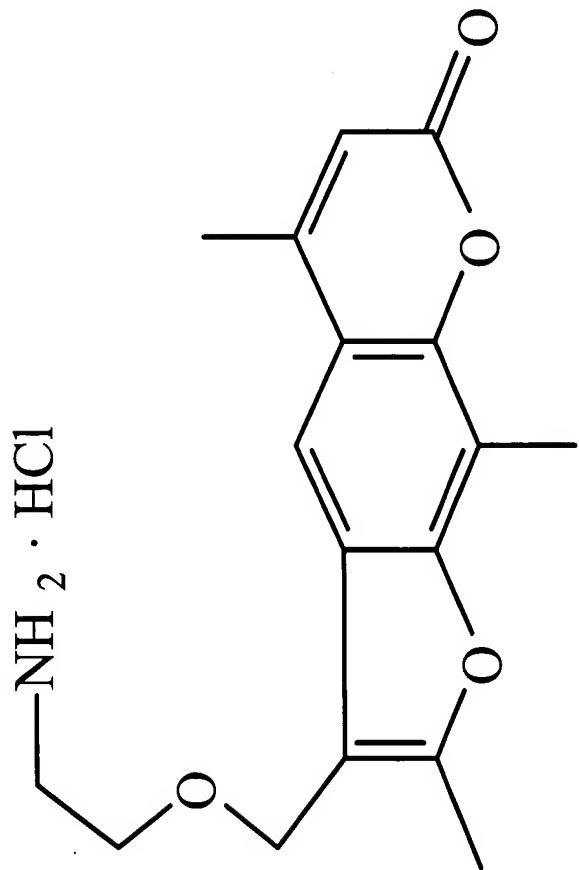


Figure 32